Business Side of Construction

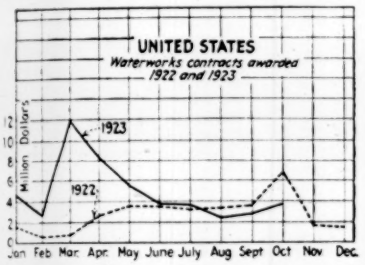
FACTS AND EVENTS THAT AFFECT COST AND VOLUME

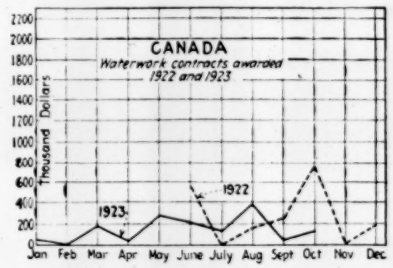
Water-Works Installation This Year and Last

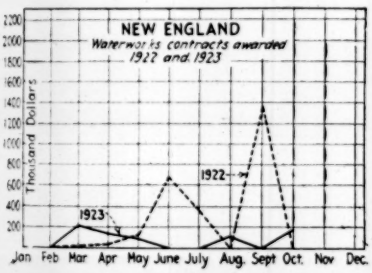
Water-works construction in the United States has followed a remarkably regular curve this year, according to *Engineering News-Record* statistics covering contracts of $15,000 and over. The first two months were normal, though about $2,000,000 per month above 1922. March was abnormally heavy, owing to $10,330,462 worth of Catskill Aqueduct contracts being awarded for a syphon to Brooklyn and conduits in that borough. Since March the slope has been fairly uniform, in August falling below 1922 figures. Contracts in the last two months have continued lighter than those let last year.

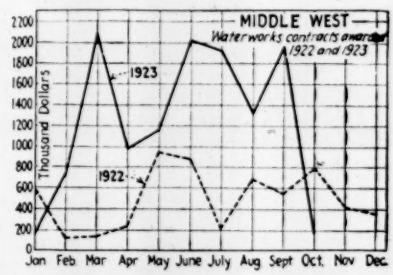
During the first nine months of the two years under consideration, 1922 had 327 awards with a total value of $25,000,000 against 335 for 1923 valued at $51,000,000. The average value of each contract in 1922 was $77,889 compared with $153,074 of this year. The trend of water-works installation for the United States during the last four years (for nine months in each case) may be gathered from the following figures:

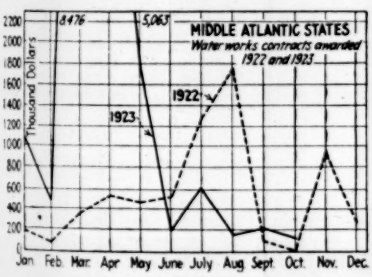
Year	Value	Monthly Average
1920	$16,401,000	$1,822,000
1921	24,252,000	2,695,000
1922	25,470,000	2,830,000
1923	51,280,000	5,698,000

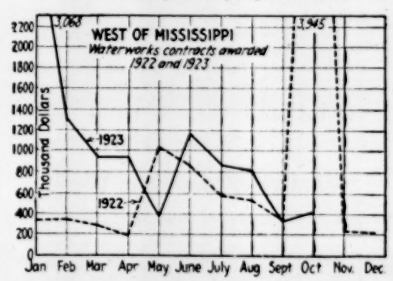

UNITED STATES
Waterworks contracts awarded 1922 and 1923
Million Dollars
1923
1922
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec

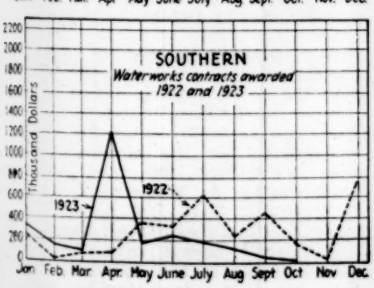


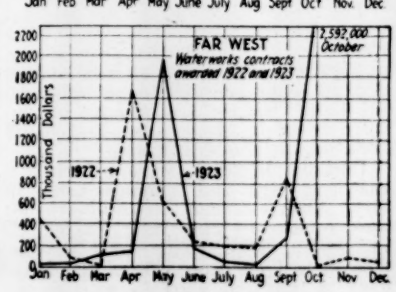

NEW ENGLAND
Waterworks contracts awarded 1922 and 1923
Thousand Dollars
1923
1922
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec


MIDDLE WEST
Waterworks contracts awarded 1922 and 1923
Thousand Dollars
1923
1922
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec









The significant fact is the same as that pointed out in the case of industrial work (p. 784, this section, Nov. 8 issue), that although the year started off with a rush of work, there has been a steady decline in the last half of the year. The Middle Atlantic states and the Mid West have been by far the most active in water-works construction this year, though both these sections are running low at present.

The October, 1923, record was hung up by the Far West, and included a 25-mi. conduit for Portland, Ore., price $2,571,404. A glimpse of the situation in the various sections of the country is given by the following comparison of the number and value of projects in the first nine months of 1922 and 1923:

	1922		1923	
	No.	Value	No.	Value
New England	12	$2,754,000	8	$671,000
Middle Atlantic	56	5,972,000	55	20,706,000
Southern	40	2,602,000	25	2,676,000
Middle West	85	4,828,000	111	13,518,000
West of Miss.	103	4,899,000	116	10,320,000
Far West	31	4,414,000	20	3,389,000
Total	327	$25,469,000	335	$51,290,000

Importation of Foreign Cement Affects Sewer Bids

The importation of foreign cement at Los Angeles Harbor has been steadily increasing during the past year, and is having its effect on the local construction situation. The presence of foreign material at the harbor last summer seems to have resulted in lower bids for the large quantities of material required in the construction of the Los Angeles outfall sewer. At least this was the opinion of engineers connected with that particular job.

During July, August and September of this year, the total receipts of the foreign material amounted to 47,420 tons, while for the corresponding period of 1922, no receipts were recorded.

Segregation by countries from which cement was received during this third quarter of 1923 is indicated by the following table:

England	16,785 tons
Sweden	16,770 tons
Belgium	6,041 tons
Germany	3,761 tons
Norway	3,028 tons
Denmark	1,035 tons
Total	47,420 tons

The value of this cement according to figures of the City Harbor Commission was $503,769. During the busiest part of the 1923 building season in this vicinity, there occurred a shortage of native cement and this was the reason for the bringing in of appreciable quantities of the foreign material.

Whether or not the importing of the foreign cement will be continued, depends upon the ability of dealers in the local materials being able to meet the demands. It is understood that native cement is now being stored by local producers in anticipation of the heavy demands which are expected in the Spring of 1923.

Bids Close		See Eng. News-Record
Nov. 30	Greenville, Miss. Adv. Nov. 15 and 22.	Nov. 15
Nov. 30	Pembina, N. D.	Nov. 22
Dec. 4	Cleburne, Tex.	Nov. 22
Dec 5	**Salem, Mass.**	Nov. 8
Dec. 5	Freehold, N. J. Adv. Nov. 15 and 22.	Nov. 15
Dec. 5	Rochelle Park, N. J. Adv. Nov. 22.	Nov. 22
Dec. 10	New Jersey Adv. Nov. 22.	Nov. 22
Dec. 20	Correctionville, Ia.	Nov. 22
May 1	Tientsen, North China	Oct. 11

DAMS

Nov. 27	Frederick, Md. Adv. Nov. 8 to 22.	Nov. 15

RAILWAYS

Nov. 26	Ontario	Nov. 22
Mar. 18	New Zealand	Sept. 20

EXCAVATION, DRAINAGE IRRIGATION

Nov. 30	New York	Nov. 22
Dec. 6	Manteca, Calif.	Nov. 22

STREETS AND ROADS

Nov. 26	Alexandria, Ky.	Nov. 8
Nov. 26	Alabama	Nov. 1
Nov. 26	Seattle, Wash.	Nov. 15
Nov. 26	California	Nov. 15
Nov. 26	Long Island City, N. Y.	Nov. 22
Nov. 26	Akron, O.	Nov. 22
Nov. 27	New Jersey	Nov. 8
Nov. 27	Vernon, Tex.	Nov. 15
Nov. 27	North Carolina Adv. Nov. 15 and 22.	Nov. 15
Nov. 27	Louisiana	Nov. 15
Nov. 27	Florida	Nov. 15
Nov. 27	Clinton, Ia.	Nov. 22
Nov. 27	Missouri	Nov. 22
Nov. 27	Ft. Worth, Tex.	Nov. 22
Nov. 27	Tampa, Fla.	Nov. 22
Nov. 28	Hampton, S. C.	Nov. 22
Nov. 28	Brooklyn, N. Y.	Nov. 22
Nov. 28	Ebensburg, Pa.	Nov. 22
Nov. 30	Phillipsburg, Kan.	Nov. 22
Nov. 30	New York, N. Y.	Nov. 22
Nov. 30	St. George, N. Y.	Nov. 22
Dec. 3	Jacksonville, Fla.	Nov. 15
Dec. 3	California	Nov. 22
Dec. 3	Los Angeles, Calif.	Nov. 22
Dec. 3	Austin, Tex.	Nov. 22
Dec. 3	Spencer, Ind.	Nov. 22
Dec. 4	Rushville, Ind.	Nov. 15
Dec. 4	Logansport, Ind.	Nov. 15
Dec. 4	Little Rock, Ark.	Nov. 22
Dec. 4	Cleburne, Tex.	Nov. 22
Dec. 4	Washington	Nov. 22
Dec. 4	Sioux City, Ia.	Nov. 22
Dec. 4	Bartow, Fla.	Nov. 22
Dec. 5	**Aiken, S. C.**	Nov. 22
Dec. 5	Raleigh, N. C.	Nov. 15
Dec. 5	New Jersey Adv. Nov. 22.	Nov. 22
Dec. 6	Palo Pinto, Tex.	Nov. 22
Dec. 6	Duluth, Minn.	Nov. 22
Dec. 10	Bonner Springs, Kan.	Nov. 22
Dec. 10	Buckhannon, W. Va.	Nov. 22
Dec. 10	Palestine, Tex.	Nov. 22
Dec. 11	West Virginia Adv. Nov. 22.	Nov. 22
Dec. 11	Michigan	Nov. 22
Dec. 11	Pennsylvania Adv. Nov. 22.	Nov. 22
Dec. 12	Webster City, Ia.	Nov. 22
Dec. 13	West Virginia Adv. Nov. 22.	Nov. 22

INDUSTRIAL WORK

Nov. 23	Waterbury, Conn.	Nov. 22
Nov. 24	Charlotte, N. C.	Nov. 22
Nov. 24	Phila., Pa.	Nov. 22
Nov. 27	New Britain, Conn.	Nov. 22
Nov. 28	Crystal Falls, Mich.	Nov. 22
Nov. 28	Baltimore, Md.	Nov. 22
Dec. 11	Tampa, Fla. Adv. Nov. 15 and 22.	Nov. 15
Dec. 12	Pulaski, Tenn.	Nov. 22
Dec. 18	Palmyra, N. Y. Adv. Nov. 22.	Nov. 22

BUILDINGS

Nov. 24	Lakewood (Cleveland P. O.), O.	Nov. 8
Nov. 26	Galveston, Tex.	Nov. 1
Nov. 26	Huntington, W. Va.	Nov. 8
Nov. 26	Tucson, Ariz.	Nov. 8
Nov. 26	New York, N. Y.	Nov. 15
Nov. 26	Brooklyn, N. Y.	Nov. 15
Nov. 26	Huntington, W. Va.	Nov. 22
Nov. 26	Baltimore, Md.	Nov. 22
Nov. 26	Minneapolis, Minn.	Nov. 22
Nov. 26	Lebanon, Tenn.	Nov. 22
Nov. 27	Clearwater, Fla.	Nov. 22
Nov. 27	Dallas, Tex.	Nov. 22
Nov. 27	Peoria, Ill.	Nov. 22
Nov. 27	Grand Rapids, Mich.	Nov. 22
Nov. 28	Middletown, N. Y.	Nov. 1
Nov. 28	Newark, Del.	Nov. 8
Nov. 28	Bethlehem, Pa.	Nov. 22
Nov. 30	**Maggie, W. Va.**	Oct. 4
Nov. 30	Louisville, Ky.	Nov. 15
Nov. 30	St. Paul, Minn.	Nov. 22
Dec. 1	Oklahoma City, Okla.	Nov. 22
Dec. 1	Commerce, Tex.	Nov. 22
Dec. 1	Tacoma, Wash.	Nov. 22
Dec. 3	Los Angeles, Calif.	Nov. 22
Dec. 4	Hartford, Conn.	Nov. 22
Dec. 4	Brooklyn, N. Y. Adv. Nov. 8 to 22.	Nov. 8
Dec. 4	Louisville, Ky.	Nov. 8
Dec. 4	Greensboro, N. C.	Nov. 15
Dec. 4	Hyde Park (Boston P. O.), Mass.	Nov. 22
Dec. 4	Slayton, Minn.	Nov. 22
Dec. 5	St. Louis, Mo.	Nov. 15
Dec. 5	Little Rock, Ark.	Nov. 22
Dec. 5	Baltimore, Md.	Nov. 22
Dec. 7	Tacoma, Wash.	Nov. 22
Dec. 10	Indianapolis, Ind.	Nov. 15
Dec. 10	Ft. Worth, Tex.	Nov. 22
Dec. 10	New York, N. Y.	Nov. 22
Dec. 10	Richmond Hill (Jamaica P. O.), N. Y.	Nov. 22
Dec. 10	Brooklyn, N. Y.	Nov. 22
Dec. 11	Cedar Falls, Ia.	Nov. 22
Dec. 12	Grand Rapids, Mich.	Nov. 15
Dec. 15	Wichita, Kan.	Nov. 15
Dec. 18	Ironwood, Mich.	Nov. 15
Dec. 18	Belzoni, Miss.	Nov. 22
Dec. 19	Falls City, Neb.	Nov. 22
Dec. 20	Sioux City, Ia.	Nov. 15
Dec. 21	Charleston, W. Va.	Nov. 15
Dec. 28	Morgantown, W. Va. Adv. Nov. 8 to 22.	Nov. 15
Jan. 1	Williamson, W. Va.	Nov. 22
Jan. 2	Bloomington, Ind.	Nov. 15

FEDERAL GOVERNMENT WORK

Nov. 24	Dredging—New York, N. Y.	Oct. 25
Nov. 26	Post Office—Mystic, Conn.	Nov. 1
Nov. 27	Barge—New Orleans, La.	Nov. 1
Nov. 27	Water Supply System—American Falls, Idaho	Nov. 1
Nov. 27	Post Office—Gallipolis, O.	Nov. 1
Nov. 28	Quarters—San Juan, Porto Rico	Nov. 8
Nov. 28	Catamarans—Jacksonville, Fla. Adv. Nov. 8 to 22.	Nov. 8
Nov. 28	Coal Bunkers, etc. — Great Lakes, Ill.	Nov. 22
Nov. 28	Shore Protection—Annapolis, Md.	Nov. 22
Nov. 30	Dam—Quebradillas, P. R.	Sept. 27
Nov. 30	Dredging, etc.—New York, N. Y. Adv. Nov. 1 to 22.	Nov. 1
Nov. 30	Post Office—Harrisonville, Mo.	Nov. 8
Nov. 30	Deep Well—Camp Knox, Ky.	Nov. 22
Dec. 1	Steel Barges—Mobile, Ala. Adv. Nov. 8 to 22.	Oct. 25
Dec. 2	Fuel Oil Storage—Mare Island, Calif.	Nov. 15
Dec. 3	Barge and Hull—New Orleans, La. Adv. Nov. 8 to 22.	Nov. 8
Dec. 4	Dredging—Phila., Pa.	Nov. 15
Dec. 5	Post Office — Marianna, Ark.	Nov. 8
Dec. 7	Well—Oklahoma City, Okla.	Nov. 22
Dec. 7	Post Office—Ripon, Wis. Adv. Nov. 22.	Nov. 22
Dec. 7	Post Office—South Bend, Ind. Adv. Nov. 22.	Nov. 22
Dec. 10	Towboat—Montgomery, Ala. Adv. Nov. 1 to 22.	Nov. 8
Dec. 10	Maneuver Boat, etc.—Huntington, W. Va. Adv. Nov. 15 and 22.	Nov. 15
Dec. 10	Remodeling — Allentown, Pa. Adv. Nov. 15 and 22.	Nov. 15
Dec. 14	Dredging, etc.—New York, N. Y. Adv. Nov. 15 and 22.	Nov. 15
Dec. 15	Operating Machinery—Louisville, Ky. Adv. Nov. 22.	Nov. 22
Dec. 19	Dredging — Wilmington, N. C. Adv. Nov. 2.2	Nov. 22
Dec. 19	Towboat—Memphis, Tenn. Adv. Nov. 22.	Nov. 22
Dec. 19	Bungalows—Wash., D. C.	Nov. 22
Dec. 22	Hospital—Livermore, Calif. Adv. Nov. 22.	Nov. 22
Jan. 30	Ward—Great Lakes, Ill.	Nov. 15

UNCLASSIFIED

Nov. 26	Portland Cement—Los Angeles, Calif.	Oct. 18
Nov. 27	Electric Light and Power Line—Erath, La.	Nov. 22
Nov. 30	Special Work—New York, N. Y.	Nov. 22
Nov. 30	Transit Shed—Los Angeles, Calif.	Nov. 22
Dec. 4	Dragline Machines—Greenville, Miss.	Nov. 1
Jan. 3	Aluminum Steel Cored Cable, etc.—Melbourne, Australia	Nov. 1
Jan. 19	Transformers, etc.—Melbourne, Australia	Oct. 18
Feb. 28	Headworks — Wellington, New Zealand	May 24
Mar. 31	Hopper Dredge — Brisbane, Queensland, Australia	Nov. 1

MATERIAL AND EQUIPMENT

Nov. 26	Street Sweeper—Sanford, Fla.	Nov. 22
Nov. 27	Reinforcing Bars, etc.—St. Paul, Minn.	Nov. 22
Nov. 28	Steel Bars, etc.—Oroville, Calif.	Nov. 22
Dec. 3	Lumber—Atlantic, Ia.	Nov. 22
Dec. 13	Pipe—Baton Rouge, La.	Nov. 22

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

New York—Cities of Ontario and Ontario Center plan water system, filtration plant, etc. $100,000. H. C. Kittridge, Union Trust Bldg., Rochester, engr.

N. Y., Fredonia — Voted $200,000 bonds new reservoir and water supply system. W. H. Shelton, city engr. Noted Oct. 25.

N. Y., Herkimer—Plans artesian well for additional water supply. $16,000. Will mature in fall.

W. Va., Fairmont—City plans 5,900 ft. mains in East Side. $35,000. J. C. Morris, City Bldg., dir.

W. Va., Matoaka—Matoaka Water & Improvement Co. plans general construction of water supply system. Engineer not announced.

N. C., Greensboro—City plans extension to mains and sewers. $100,000. M. M. Boyles, Greensboro, engr. Noted Oct. 25.

S. C., Arcadia—See "Sewers."

Tenn., Bluff City—Voted $20,000 bonds for waterworks system.

Ky., Marion — Voted **$50,000** bonds for waterworks system.

O., Lima—Plans enlarging present water plant, will add 3-4 m.g. capacity, etc. $100,000. W. H. F. Dittoe, Columbus, engr.

Kan., Brookfield—Voted $20,000 bonds locating and digging deep well, erecting pump station and mains. Private plans.

Kan., Russell—Dec. 3, to vote on $95,000 bond issue for waterworks plant, equipment and distribution system.

Neb., University Place (Lincoln P. O.)—Election soon to vote on $100,000 bonds for waterworks improvements. Grant, Fulton & Letton, Bankers Life Bldg., Lincoln, engrs.

Mo., Greenfield—Soon takes bids waterworks improvements. Voted $17,000 bonds. Engineer not announced.

Mo., Kansas City — Bd. Fire & Water Comrs. takes bids about Dec. 15, 3 mi. pressure tunnel, 7 ft. 6 in. diam., under Missouri River Valley, 280 ft. below ground surface, Contr. 1; 11,000 ft. and 14,000 ft. pressure tunnels 6 ft. diam., 170 ft. and 130 ft. below ground surface, Contr. 2. G. W. Fuller, 170 Bway., New York City, and A. Maitland, 600 Walnut St., Kansas City, engrs. Noted Sept. 6.

Mo., Salem — Defeated **$69,000** bonds waterworks and distribution system. E. T. Archer & Co., 612 New England Bldg., Kansas City, engrs. Noted Oct. 18.

Tex., San Antonio — San Antonio Water Supply Co., 106 Market St., making plans 20 m.g. covered concrete reservoir, sinking 3 new artesian wells and laying 42 in. main from main pumping plant to Northern portion of city, $800,000, also laying additional mains in new and suburban additions to city, $150,000. Private plans.

Okla., Nowata—Election soon to vote on $125,000 bonds for waterworks improvements and extensions. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs.

Colo., Denver—See "Contracts Awarded."

Wash., Centralia — City Council plans pumping and filtration plant on Skookumchuck River to furnish auxiliary water supply, first unit 1,500,000 g.p.d. capacity. Ul-

Waterworks (Continued)

timately 6 m.g. per day. **R. A. Welsh**, city engr.

Ore., La Grande—Making plans 15 mi. pipe line approximately $270,000; twin reservoirs $35,000; pumping plant, $25,000. F. B. Hayes, La Grande, engr.

N. S., Sydney—Plans to extend water system, $80,000. R. McKinnon, engr.

Ont., Islington—Etobicoke Twp. plans 5 mi. waterworks system to supply area of 1,110 acres, pipe 6 in. up, $131,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Kenora—Plans to install 350,000 imp. gal. steel water tank. F. H. Cooper, town clk.

Ont., Oshawa—Town plans to purchase 1,000 imp. gal. per minute, 3 stage centrifugal pump, to work against head of 340 ft. direct connected to 60 cycle, 550 volt squirrel cage induction motor. W. C. Smith, town engr.

BIDS DESIRED

R. I., Scituate (North Scituate P. O.)—Dec. 19, at office of Water Supply Bd., City Hall, Providence, clearing, grubbing, and other preparation of Scituate Reservoir, here. F. E. Winsor, 661 Westminster St., Providence, ch. engr.; adv. E. N.-R. Nov. 22.

N. Y., Hamburg—Village Bd. in market for motors, machinery, deep well pumps, pumping equipment, etc. $8,000.

N. Y., Long Island City—Nov. 26, by M. E. Connolly, pres. Queens Boro. Queens Subway Bldg., reconstructing pumping station at Camp Rd. and Beach 25th St., also constructing force main from pumping station to Beach 25th St. to Deerfield Rd., etc.

N. J., Kearny (Arlington, P. O.)—Dec. 12, by Town Council, Town Hall, constructing part of Meadows Water System known as steel main in Jacobus Ave. W. B. Ross, town clk.; adv. E. N.-R. Nov. 22.

Md., Baltimore—Nov. 28, by Bd. Awards, 1½ tons c.i. pipe and c.i. special fittings for Highways Engineers Dept. $5,000. B. L. Crozier, highways engr.

N. C., Laurinburg—Dec. 18, by H. W. Malloy, mayor, and Bd. Town Comrs. at office of C. M. Fetter, town clk., waterworks improvements. Gilbert C. White Co., Durham, engrs.; adv. E. N.-R. Nov. 22.

O., Toledo—Dec. 4, Director Pub. Serv. synchronous motor driven centrifugal pump, 35 m.g. daily capacity. $18,600. W. G. Clark, 1046 Spitzer Bldg., consult. engr.

Mich., River Rouge—Taking bids furnishing and installing 2,800 ft. 16 in. c.i. mains in Pleasant Ave. $15,000. M. L. Brown & Son, 403 Capitol Bldg., Detroit, engrs.

Ill., Windsor (New Windsor P. O.)—Dec. 17, drilling deep rock well. Caldwell Eng. Co., Jacksonville, engrs.; adv. E. N.-R. Nov. 22.

Ia., Washington—Dec. 6 for waterworks improvements, incl. brick building, electric driven pumps, piping, equipment and 200,000 gal. elevated tank. A. L. Mullergren, 555 Gates Bldg., Kansas City, Mo., engrs. Noted Oct. 11.

N. M., Albuquerque—Dec. 12, at office I. V. Malone, city clk., 10 m.g. reservoir. F. Kimball, city engr.; adv. E. N.-R. Nov. 22.

Calif., Porterville—Dec. 6, furnishing 5,000 ft. 4 in. Class B c.i. bell and spigot pipe, etc., f.o.b. factory or Porterville.

BIDS RECEIVED

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in (1) Oak Point Ave. etc. (2) Bolton and Bronx River Aves., etc. (3) Brinsmade and Calhoun Aves., etc. (4) Barkley and Lafayette Aves., etc., from Paladino Contg. Co., 437 East 120th St., (1) $10,901; C. DeBlasio, 339 7th Ave., Mt. Vernon, (2) $23,000 (3) $13,697 (4) $15,500; Knight & DeMicco, 448 East Tremont Ave., (3) $13,697. Noted Nov. 8.

Wis., New Holstein—Drilling artesian well, 800 ft. deep, 130 ft. 12 in., 390 ft. 10 in. pipe, balance 8 in., from M. T. Peterson, Madison, $6,210. Noted Oct. 11.

Colo., Denver—See "Contracts Awarded."

CONTRACTS AWARDED

Ill., McLeansboro—To Nixon & Keeley, Murphy Bldg., East St. Louis, 3,609 ft. 4 in. pipe, 1,054 lb. 4 in. special castings, 400,000 g.p.d. filter plant; to Gould Pump Co., Syndicate Trust Bldg., St. Louis, Mo., pumping equipment. Total est. cost $31,500. Noted Oct. 18.

Ia., Morning Sun—Sinking 12 in. well, 1,200 ft. deep, to McCarthy Well Co., Wabash and Eustis Sts., St. Paul, Minn. Noted Aug. 2.

Kan., Kansas City—City, rein.-con. reservoir, 259 x 433 ft. 24 ft. high, to Arkansas Bridge Co., 1503 Waldheim Bldg., Kansas City, Mo., $274,600; two 600 hp. boilers, and one 12,500 kva. turbine generator to Babcock & Wilcox Co., 140 South Dearborn St., Chicago, $40,320.

Okla., Sulphur—F. Gofford, city clk., motor driven pump units, concrete reservoir, tower, 4,400 ft. 6 and 8 in. c.i. pipe, etc., to W. B. Scott, Sulphur, cost plus 10%, not to exceed $43,500. Noted Sept. 27.

Colo., Denver—Improvements to Ashland Ave. Reservoir, east and west basins, to R. L. Hanes, 617 East 1st Ave., $85,477, extra work Item 1 excav. and grading $1.60 per cu.yd., Item 2 removing condemned soil and replacing with new soil $2.50 per cu.yd., Item 3 concrete and form work $18 per cu.yd. Noted Nov. 1.

Colo., Denver—Large c.i. pipe (alternate proposition accepted), to United States Cast Iron Pipe & Fdry. Co., Tarrant City, Birmingham, Ala., $175,067; small pipe, to Colorado Fuel & Iron Co., 6-24 in. pipe, $60, total $74,627; vertical valves, to Resselaer Valve Co., 50 Church St., New York, twenty five 4 in. hub end $15.43 each, two hundred and fifty 6 in. $28.18, thirty 8 in. $44.28, fifteen 10 in. $67.10, seventy-five 12 in. $84.55, two 24 in. $495.01, ten 24 in. $496.23, fifteen 36 in. $1,491.45, three 42 in. $2,199.66, four 48 in. $3,013.40, three 48 in. flange $2,270.45, total $69,895; low bid received on meters from Badger Meter Mfg. Co., iron body $2,550. Rejected bids for special castings. Noted Oct. 18.

Calif., Stockton—Bd. Supervs., San Joaquin Co., furnishing and erecting 1 standard 4 panel hemispherical bottom steel tank, 50,000 gal. capacity, secured at top of steel frame tower, 100 ft. high, at County Hospital, here, to Chicago Bridge and Iron Wks., Rialto Bldg., San Francisco, $9,335. Noted Oct. 25.

Sewers

PROPOSED WORK

Conn., Darien—See "Industrial Works."

N. C., Greensboro—See "Waterworks."

S. C., Arcadia—Having plans prepared complete sewerage and waterworks systems. Lockwood, Greene & Co., Piedmont Bldg., Charlotte, N. C., designing and supervising engrs.

Mich., Adrian—Dec. 11 to vote on $595,000 bonds for storm and sanitary sewers in various streets, sewage treatment plant, sanitary sewer in Raison Rd., pumping stations and mains.

Mo., Greenfield—Soon takes bids sewers. Voted $43,000 bonds. Engineer not announced.

Mo., Salem—Defeated $56,000 bonds storm and sanitary sewers. E. T. Archer & Co., 612 New England Bldg., Kansas City, engrs. Noted Oct. 11.

Tex., San Antonio—Dec. 4, to vote on $100,000 bonds constructing and extending sanitary sewers, also $250,000 bonds storm sewers. J. W. Tobin, mayor.

Okla., Tulsa—Election Nov. 20, to vote on $800,000 bonds for 10 mi. large storm and sanitary sewer outlets with smaller mains. Work will be divided into 12 different projects and voted upon separately. C. Schultz, city engr.

Utah, Salt Lake City—Plans 4 mi. 2-6 ft. storm sewers in 4th St. S. from 11th St. E. to Jordan River. $250,000. Q. Cannon, city engr.

Ont., Bridgeburg—Plans sewers in Lewis, Janet and Gilmour Sts. $27,000. M. C. Williams, mayor and chn. of com.

Ont., North Bay—Soon takes bids 9,500 ft. 6-12 in. vitr. tile sanitary and storm sewers. $40,000. W. Mackie, town engr.

Ont., Oshawa—Plans 12,000 ft. of 8-12 in. vitr. storm and sanitary sewers in Simcoe, Mary and King Sts., Eulalie and Masson Aves. $30,000. W. C. Smith, town engr.

Ont., Toronto—Plans 13,000 ft. vitr. tile storm and sanitary sewers, 8 in. up, in Beaufort and Winthorpe Rds., Glen Manor Dr., Maragaret Ave., Main, Weller and Cavendish Sts. $48,550. R. C. Harris, city engr.

Ont., Toronto—York Twp. plans 8,000 lin.ft. 12 in. vitr. tile sewers in Governors Rd., Nesbitt Dr. and Douglas Crescent to disposal plant at Pottery Rd. $36,000. F. B. Goldike, 40 Jarvis St., engr.

Ont., Toronto—York Twp. plans 6,000 ft. of 12 in. vitr. sanitary sewrs. $25,000. F. B. Goldike, 40 Jarvis St., engr.

BIDS DESIRED

N. Y., Long Island City—Nov. 26, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., receiving basins in Junction and Railroad Aves., etc.; sewer in 118th St.

Pa., Lewistown—Dec. 6, by Boro. Council, 1,000 ft. 6 in., 2,595 ft. 8 in., 674 ft. 10 in. terra cotta pipe, 450 ft. 8 in. and 90 ft. 10 in. c.i. pipe Class A in South Main St. Banks & Craig, Telegraph Bldg., Harrisburg, engrs.

W. Va., Bluefield—Dec. 11, at office of C. E. Ridley, city mgr., 8 mi. 6-10 in. sanitary sewer, ¾ mi. 12-48 in. storm sewers, 2 mi. concrete conduit, etc.; adv. E. N.-R., Nov. 22.

O., Akron—Dec. 5, by W. F. Peters, dir. Pub. Serv., 4,500 ft. 48 in. brick sewer in Hawkins Ave. $415,000. J. E. Root, Delaware Bldg., engr.

O., East Youngstown—Nov. 28, by J. E. McGarry, dir. Pub. Serv., City Bldg., 10,000 ft. sewers in Gordon Ave., Robinson and Coitsville Rds., Oxford, Regent, Picadilla, Princess, 6th, Reed, Tenney and Penhale Aves.; grading, Gordon Ave. To exceed $30,000. A. R. Haenny, East Youngstown, engr. Noted Nov. 15.

Ark., Forrest City—Nov. 26, by Comrs. Special Impvt. Dist., c/o O. B. Rollwage, secy., disposal plant incl. disposal tank, sludge bed and appurtenances, 1,000 cu.yd. excav. and 240 cu.yd. concrete. F. J. Herring, Forrest City, engr.

Tex., Dallas—Nov. 30, by City Com., 12 new Imhoff tanks, new sewer line from South Dallas to Trinity River bottom, (site of plant, etc.). $500,000. E. A. Kingsbury, city engr. Noted Nov. 1.

Calif., Corning—City Trustees taking bids 16,311 lin.ft. 12 in. vitr. or concrete sewer pipe, concrete catchbasins, etc. W. F. Lunning, c/o Courthouse, Red Bluff, engr.

BIDS RECEIVED

N. Y., Albany—See "Streets and Roads."

CONTRACT AWARD

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sanitary sewer in Owens St., etc., to D. Bonnacci, $81,487. Noted Nov. 8.

O., Zanesville—Lateral sewers for Southwest Sewerage System, to Adams Bros. Contg. Co., Muskingum Ave., $303,150. Engrs. est. $300,000.

Kan., Cherryvale—City, sewage disposal plant and outfall sewer, to Amerman & Snyder, Wichita, $51,366.

Wash., Seattle—Bd. Pub. Wks., clay sewers in Brandon St. et al. and in 32nd Ave. S. et al., to Romano & Co., 123 23rd St. S., $75,493 and $35,484 respectively. Engrs. est. $58,255 and $29,184 respectively. Noted Nov. 1.

Ont., Toronto—Storm and sanitary sewers in Milwood Rd., Henning and Tilson Aves., also Phinn Ave., to W. E. Taylor, 22 Falcon St., $10,766 and $1,453 respectively; Leslie St. and Chatham Ave., to Natl. Contg. Co., 9 Garnock Ave., $1,480 and $11,988 respectively.

Waste Disposal

PROPOSED WORK

Ia., Ft. Dodge—Plans incinerator. $23,000. C. W. Wakeman, clk.

BIDS DESIRED

Tex., San Antonio—Nov. 26, by F. Fries, city clk., erection of 1 or more 40 tongarbage incinerator plants. $35,000. O. D. Harrigan, city engr.

Bridges

PROPOSED WORK

Mass., Springfield—Having plans prepared and takes bids about Jan. 1, 1,135 ft. rein.-con. and steel bridge, 66 ft. wide. J. A. L. Waddell, 35 Nassau St., New York City, engr.

Conn., Hartford—Underwood Typewriter Co. plans 50 ft. span overhead bridge, truss encased by concrete, $25,000. Private plans.

La., La Fayette—See "Streets and Roads."

O., Cincinnati—City and Baltimore & Ohio R.R., Central Union Depot, plan grade elimination by construction concrete viaduct, 56 ft. wide, 8th St., $1,400,000. City to pay $825,000 and railroad $575,000. Noted Sept. 6.

O., Steubenville—Pennsylvania R.R., Broad St. Sta., Pittsburgh, Pa., plans replacing 1,903 ft. steel truss bridge, 9 or 10 spans, over Ohio River, here. $1,000,000. R. Trimble, c/o owner, asst. ch. engr.

Mich., Port Huron—City Comn. having plans prepared new jack knife steel bridge over Black River on 7th St. to replace present 100 ft. bridge. Osborn Eng. Co., 2848 Prospect Ave., Cleveland, O., engrs.

Ill., Chicago—Lincoln Park Comrs., Clark and Center Sts., plan concrete bridge at foot of Diversey Parkway, across Island in Lincoln Park. $300,000. Work will be done by day labor.

Wisconsin—State Hy. Comn., Madison, asked Columbia, Calumet, Kewaunee, Manitowoc, Marinette, Oconto, Outagamie, Shawno, Juneau, Chippewa, Eau Claire,

Bridges (Continued)

Pepin, St. Croix, Taylor and Oneida Counties to construct bridges. Total est. $46,000.

Okla., Sayre — Backham Co. preparing plans 20 rein.-con. bridges to replace those destroyed by recent flood. Election soon to vote on $600,000 bonds. R. N. Higgins, Sayre, engr.

Okla., Tecumseh—Pottawatomie Co. election Dec. 11, to vote on $200,000 bonds to repair and extend 7 bridges over North Canadian River, destroyed by recent flood. F. D. Brown, Shawnee, engr.

Okla., Wanette—Pottawatomie Co. (Tecumseh), election Dec. 11, to vote on $100,000 bonds for 1,800 ft. steel bridge, 6 spans, here. F. D. Brown, Shawnee, engr.

Ore., Portland—Multnomah Co. voted $350,000 bonds for 750 ft. five span steel bridge, concrete piers over Williamette River in Sellwood, here. City and County share cost. Will use old steel from Burnside Bridge. Noted Sept. 27.

Wash., Aberdeen—Plans bascule bridge. $200,000. M. M. Caldwell, Central Bldg., Seattle, engr.

BIDS DESIRED

New Jersey—Dec. 10, by State Hy. Dept., Trenton, 80 ft. single leaf overhead counterweight bascule span for 30 ft. roadway over 50 ft. channel, also temporary bridge, etc., over Cedar Bonnet, Manahawken Bay, in municipality of Stafford, Ocean Co. Former bids rejected. J. L. Vogel, 772 Broad St., Newark, bridge engr.; adv. E. N.-R. Nov. 22. Noted Nov. 15.

N. J., Rochelle Park—Dec. 5, by State Hy. Dept., Trenton, concrete encased I-beam bridge, incl. removing existing bridge over Saddle River, Route 10, M. P. 2.9, Bergen Co., here. J. L. Vogel, 772 Broad St., Newark, bridge engr.; adv. E. N.-R. Nov. 22.

West Virginia—See "Streets and Roads."

S. C., Aiken—See "Streets and Roads."

S. C., Georgetown—Nov. 28, by Comrs. Georgetown Co., 440 ft. rein.-con. and steel bridge over Black River on State Route 40, Federal Aid Project 223, 1,936 ft. earth approaches with sand clay surfacing.

S. C., Hampton—See "Streets and Roads."

Miss., Belzoni—See "Streets and Roads."

Wis., Milwaukee—Nov. 24, by F. H. Schumacher, secy. Park Bd., City Hall, wood or concrete piling for Mason St. viaduct. Total cost $400,000. Clas, Shepherd & Clas, 445 Milwaukee St., engrs. Noted Nov. 8.

Wis., Rhinelander—Nov. 26, A. O. Rendel, city engr., 230 ft. timber trestle, 18 ft. roadway. $25,000.

Ia., Correctionville—Dec. 20 by Auditor Woodbury Co., (Sioux City), 350 ft. steel and concrete bridge over Little Sioux River, here. $35,000. J. C. McLean, Sioux City, co. engr.

Kan., Phillipsburg — Nov. 30, by Clerk Phillips Co., 140 ft. bridge on Federal Aid Project 166, Sect. B, one 80 ft. span and two 30 ft. approach spans, 148.7 cu.yd. rein.-con., 141.6 cu.yd. concrete, 25,100 lb. reinforcing steel, and 90,513 lb. structural steel, etc. C. E. Freeman, Phillipsburg, engr. Noted Nov. 15.

N. D., Pembina—Nov. 30, by State Hy. Comn. of North Dakota, at Pembina, two 344 ft. steel spans and one center pier over Red River, for States of North Dakota and Minnesota, Pembina Co., N. D., and Kittson Co., Minn. $125,000.

Tex., Cleburne—Dec. 4, by O. B. McPherson, judge Johnson Co., 360 ft. concrete girder bridge over Buffalo Creek, near here, twelve 30 ft. spans. $34,000. R. E. Keller, co. engr.

BIDS RECEIVED

Ohio—See "Streets and Roads."

O., Youngstown—P. J. Carney, dir. Pub. Serv., Nov. 16, foundation for 500 ft. concrete and steel bridge, Belmont Ave., from Parish Bros., Commerce and Decker Sts., $128,740 alternate $131,740. Noted Nov. 8.

Tex., Marlin—See "Streets and Roads."

CONTRACTS AWARDED

Pa., Phila.—Fairmount Park Comrs., 127 City Hall, skew arch stone and concrete bridge under Chestnut Hill branch Phila. & Reading R.R., east of Germantown Ave., to Brown King Co., Commercial Trust Bldg., $66,405.

S. C., Lancaster—Lancaster Co., 5 rein.-con. bridges on Federal Aid Project 230, between here and North Carolina state line, to N. C. Hughes, Jr., Laurens, $43,515.

Ga., Macon—Central of Georgia R.R. Co., Savannah, superstructure of 8 girder steel span bridge over Okmulgee River, here, to Virginia Bridge & Iron Co., Roanoke, Va. Est. cost to exceed $75,000.

O., Cleveland—Cleveland Union Terminal Co., 323 Lakeside Ave., 330 ft. concrete bridge over West 25th St. near Columbus Rd., to Richley Constr. Co., Hanna Bldg. Engrs. est. $400,000.

O., Cleveland—Cuyahoga Co., steel superstructure, wood block floor, for bridge on Hillside Rd., 310,000 lb. steel and 640 sq. yd. wood block, to Standard Eng. Co., Toledo, $30,987. Noted Nov. 15.

Minnesota—State Hy. Dept., St. Paul, Bridge 3583 at Split Rock, 80 ft. deck truss span, to Adams Constr. Co., 928 Andrus Bldg., Minneapolis, $19,954, Bridge 3584 at Crow Creek, four 100 ft. deck spans, to Minneapolis Bridge Co., 924 Metropolitan Life Bldg., Minneapolis, $53,600, and Bridge 3585 at Gooseberry, one 150 ft. arch and two 60 ft. approach spans, to Illinois Steel Co., 836 Security Bldg., Minneapolis $34,984, all foregoing bridges on State Project 1-01, Federal Aid Project 282; Bridge 3795, one 80 ft. truss span, to Guaranty Constr. Co., 301 Essex Bldg., Minneapolis $16,460, Bridge 3796, one 100 ft. truss span, to Independent Bridge Co., 1101 Metropolitan Life Bldg., Minneapolis, $11,000, and Bridge 3797, one 100 ft. truss span, to Iowa Bridge Co., 317 McKnight Bldg., Minneapolis $11,888, all foregoing on State Project 16-21, Federal Aid Project 314, Cottonwood Co.; Bridge 3891, one 120 ft. truss span, to Widell Co., Mankato, $18,974, Bridge 4007, three 50 ft. skew deck girders, to Campbell Constr. Co., 3050 Hennepin Ave., Minneapolis, $13,800, both foregoing on State Project 1-39, Div. B, Federal Aid Project 296, Steele Co. Noted Oct. 18.

Dams

BIDS DESIRED

Mich., Cadillac — Consumers Power Co., Jackson, taking bids earth dam and concrete power house for 62 ft. head on Manistee River near here. E. M. Burd, hydraulic and civil engr.

BIDS RECEIVED

Calif., Merced—Merced Irrigation Dist., constructing Exchequer Dam, from L. S. Atkinson, Jr., Chapman Bldg., Los Angeles Form (1) $1,719,550, Form (2) 1,192,550; Bent Bros., Inc., 1714 Eagle St., Los Angeles, Form (1) $1,840,100 Form (2) $1,189,100. Noted Oct. 25.

Railways

PROPOSED WORK

West Virginia—Coal River & Eastern Ry. Co., Huntington, c/o A. E. Barner, Cleveland, plans lines from Ashford to Lick Creek, and from Seth to Griffith, Boone Co.

Texas—Louisville Railway & Navigation Co., 709 Title Guaranty Bldg., New Orleans, La., had plans prepared regrading, new ties and steel on 30 mi. line from McKinney to Greenville, to exceed $100,000. W. C. Borchert, Greenville, ch. engr.

Texas — Rio Grande R.R., Brownsville, making plans converting to standard gauge approximately 17 mi. between Brownsville and Point Isabel. $200,000. C. S. Hobbs, ch. engr.

Texas—Texas-Midland R.R. plans extension from Paris to Tyler. Address Superintendent at Tyler.

Ontario — Temiskaming & Northern Ontario Ry., North Bay, plans 50-60 mi. steam railway from Swastika to Westree, 80 lb. rails. $2,000,000. S. B. Clement, ch. engr.

BIDS DESIRED

Ontario—Nov. 26, by E. W. Oliver, mgr. Toronto Eastern Ry., 1 Toronto St., Toronto, rebuilding three wooden trestles, total length, 1,500 ft., one at Whitby, one at Oshawa and other at Bowmanville. $50,000.

CONTRACTS AWARDED

Ontario—Temiskaming & Northern Ontario Ry., North Bay, will complete railway extension from Cochrane to Oil Can Rapids, incl. 30 mi. tracklaying, ballasting, telegraph and telephone lines, with concrete culverts and bridges, by day labor. $800,000. S. B. Clement, ch. engr.

Excavation, Drainage and Irrigation

PROPOSED WORK

Ont., St. Catharines—Dept. Rys. & Canals, Parliament Bldgs., Ottawa, takes bids about Nov. 26, constructing Sect. 8 Welland Canal near here, incl. earth and rock excav., mass concrete, canal locks, etc. $5,000,000. W. A. Bowden, Parliament Bldg., Ottawa, engr.

BIDS DESIRED

New York—Nov. 30, by J. A. Delaney, comr. Docks, Pier "A" foot of Battery Pl., New York, dredging channels, constructing dikes, placing fill on West Island in connection with improvement of Jamaica Bay.

Calif., Manteca — Dec. 6, by Directors South San Joaquin Irrigation Dist., concrete and asphalt lining 8 mi. ditches, 542,000 sq.ft. concrete, 50,000 sq.ft. asphalt, etc., constructing bridges, checks and service gates. District furnishes cement, sand and gravel for concrete lining. Noted July 19.

CONTRACTS AWARDED

Ala., Fayette—Drainage Comrs. Fayette Co., digging 2 mi. ditch, 10 ft. wide, to D. W. Dobbins, Tupelo, Miss., $147,000.

Wis., Milwaukee—J. Hunholz, 2316 Vliet St., excavation for two 8 story and basement, 50 x 100 ft., brick and concrete apartment houses, plain foundations, Mason St., to Froemming & Radtke, 1405 Louis Ave. See item under "Buildings," Proposed Work.

Calif., Bishop—Owens Valley Irrigation Dist., canal lining, new structures, etc., by day labor. Engrs. est. $150,000. W. R. McCarthy, Bishop, engr. Noted Aug. 23.

Streets and Roads

PROPOSED WORK

Connecticut—State Hy. Comn., Hartford, plans to expend $8,000,000 for road work in 1924. J. A. MacDonald, state highway comr.

Connecticut—State Hy. Dept., Hartford, plans 1 mi. concrete highway, 30 ft. $100,000. J. A. MacDonald, state highway comr.

N. Y., Utica—Plans new street from Whitesboro to Park Aves. $175,000. Will mature in spring. R. S. Cookinham, City Bldg., engr.

N. Y., Waterloo—Nov. 27 to vote on $28,000 bonds paving 10,283 ft. Elisha, Center, North, Church, Clark, Williams, Mill, Washington, Fayette, Stark and Inslee Sts., 16 ft., bituminous macadam. A. R. Moore, village clk. Noted May 10.

N. J., Trenton—Plans ½ mi. extension to Bryn Mawr Ave under tracks of Philadelphia & Reading R.R., $75,000; extending street along Delaware and Raritan Canal, at Cadwalader Park, $50,000. J. E. English, City Hall, engr.

Pa., Midland—Plans to improve 3 mi. Midland-East Liverpool Rd. between here and East Liverpool, O., brick. $100,000. H. B. Balch, East Liverpool, engr.

W. Va., Moundsville—Webster Co. takes bids about Jan. 1, grading 6 mi. roads in Webster Dist. $100,000. A. Purdy, co. road engr. Noted Nov. 1.

Fla., Lakeland—City making plans paving 23 mi. C. C. Brown, Lakeland, engr.

Fla., Plant City—Voted $40,000 bonds grading and paving streets. H. B. Andrews, Plant City, engr.

Ala., Greensboro—Hale Co. plans grading 20 mi. Greensboro-Uniontown Rd., 18 ft. surfacing, 26 ft. roadway, Federal Aid Project 141. $142,862. W. S. Keller, Montgomery, state highway engr.

La., La Fayette—Lafayette Parish voted $300,000 bonds for new roads and bridges.

Tennessee — State Hy. Dept., Nashville, rescinded contract awarded to W. C. Anderson Constr. Co., Harriman, due to failure of county to put up funds, for 3.3 mi. highway between Knox Co. line to Straw Plains, State Aid Project 133, Jefferson Co. $60,000.

Tenn., Chattanooga—Plans widening East 9th St. and McCallie Ave. $25,000. H. Bartholomew, Compton Bldg., St. Louis, Mo., city planner.

Kentucky—State Hy. Dept., Frankfort, plans surfacing 1.96 mi. Hardyville-Buffalo Rd., 18 ft., Hart Co. J. S. Boggs, state highway engrs.

Ky., Louisville—Hieatt Bros., 231 South 5th St., having plans prepared by W. Pitkin, Jr., and S. H. Mott, 4500 Euclid Ave., Cleveland, O., developing Riviera subdivision of Louisville, incl. roads, sidewalks, concrete bridge, etc. $25,000.

Ky., Pineville—Plans paving 3,730 ft. Park and Tennessee Aves., 8,289 sq.yd. rock asphalt, concrete or bituminous concrete, 7,033 lin.ft. 6 in. concrete curbing, 7,033 lin. ft. 2½ in. concrete gutter, etc. J. S. Boggs, c/o State Highway Dept., Frankfort, engr.

O., Akron—W. F. Peters, dir. Pub. Serv. takes bids after Jan. 1, grading, laying sidewalks, curbing and guttering, paving 3,400 ft. East Market St., 14,000 sq.yd. vitr. brick or 11,200 sq.yd asphalt, 35,150 sq.ft. concrete sidewalks, etc. $95,000, 3,100 ft. West Market St., 10,020 sq.yd. vitr. brick or 8,445 sq.yd. asphalt, 12,700 sq. ft. cement sidewalks, etc., $80,000; grading and paving 2,000 ft. Aqueduct St., 800

Streets and Roads (Continued)

sq.yd. vitr. brick, 5,000 sq.yd. asphalt, etc., $32,000. E. A. Kemmler, Delaware Bldg., engr.

O., Marysville—Union Co. plans improving 3 mi. Richwood Rd. from Pharisburg to Adam Rider Farm, 20 ft. $100,000.

Michigan—State Hy. Dept., Lansing, rejected bids Oct. 29, grading and surfacing 2.901 mi. State Trunk Line Rd. 23-10, Branch Co. Will readvertise soon. F. F. Rogers, comr. Noted Oct. 18.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and gravel surfacing 8 mi. Assessment Dist. Rd. 280, Tuscola and Lapeer Counties. F. F. Rogers, comr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and concrete surfacing 4½ mi. Federal Aid Project 63, Sect. B, Bay Co., 2½ mi. Federal Aid Project 101, Sect. C, Van Buren Co., and 1 mi. Federal Aid Project 123, Sects. A and B, Cheboygan Co. F. F. Rogers, state comr.

Wis., Antigo—Having preliminary plans prepared paving Clermont, Superior, 6th and 5th Aves., bids on several types incl. concrete. J. Donohue, North 8th St., Sheboygan, engr.

Wis., La Crosse — Plans paving Main, Pearl, Liberty and Redfield Sts., also State St. from Front St. to Riverside Park and from Losey Blvd. to 18th St., various types; grading East Ave., Ferry, 22nd, Pine, Vine, 24th, 23rd, King and Madison Sts. C. C. Congdon, City Hall, engr.

Kan., Fort Scott—Having plans prepared paving 19 blocks 6th St., 35 ft., concrete, brick, asphalt, macadam, etc. Bids soon.

Kan., Hutchinson — Plans grading, asphaltic concrete surfacing, curbing, guttering, etc., 25 blocks Pershing, Plum, Ford and Washington Sts., average width 24 ft. $85,000. R. B. Lee, city engr.

Kan., Independence — Montgomery Co. having plans prepared surfacing 2.03 mi. Federal Aid Project 121, Sect. H, bituminous macadam. H. K. Hibbard, co. engr.

Kan., Iola — Plans resurfacing with asphaltic concrete or sheet asphalt, Campbell, Colburn, Oak, and 1st Sts., 10 blocks, various widths. $31,000 to $35,000.

Kan., Topeka—Shawnee Co. soon takes bids grading and concrete surfacing 3.986 mi. Golden Belt Rd., Federal Aid Project 177 Sect. A, 18 ft. A. C. Lagerwall, co. engr.

Kan., Troy—Doniphan Co. had plans prepared earthwork preparatory to hard surfacing 7.292 mi. Project 169, Sect. C, 18 ft. H. L. Parker, Troy, engr.

Montana—State Hy. Dept., Helena, plans gravel surfacing 11.5 mi. Federal Aid Project 211, Cascade Co., $69,927.

Mont., Livingston—Plans paving, curbing and building sewers in various streets. $200,000. H. M. Shelver, clk.

Mo., Moberly — Retained Benham Eng. Co., consult. engrs., 512 Gumbel Bldg., Kansas City, to prepare plans resurfacing various streets. Will mature in spring.

Mo., New Franklin—Voted $30,000 bonds grading and macadamizing Bway., Missouri, Howard, Pearl and Union Sts. Noted March 8.

Tex., Anson—Plans permanent paving 25 blocks. $50,000. Elrod Eng. Co., 3206 Elm St., Dallas, engrs.

Tex., Bryan—Brazos Co. election soon to vote on $1,500,000 bonds, highway improvements. H. C. Ferguson, co. judge.

Tex., Corpus Christi—Nueces Co. making plans grading, surfacing with gravel base and 1 in. bituminous top 5.23 mi. Robstown-Alice Rd., 18 ft. C. E. Cocke, co. engr.

Tex., Crosbyton — Voted $28,000 bonds street paving Baker & Von Zuben, Ellison Bldg., Ft. Worth, engrs. Noted Oct. 11.

Tex., Falfurrias—Brooks Co. election soon to vote on $250,000 bonds, grading, surfacing, etc., various highways. $250,000 to be appropriated by State and Federal Government. J. A. Brooks, co. judge.

Tex., Ft. Worth—Had plans prepared graveling 2 mi. boulevard in Cobb Park. $25,000. D. L. Lewis, city engr.

Tex., Jasper—Jasper Co. soon takes bids gravel surfacing 6 mi. State Highway 45, 16 ft. $60,000. C. R. Hunter, co. engr. Noted Nov. 1.

Tex., Memphis—Hall Co. voted $200,000 bonds, (additional $200,000 to be appropriated by State and Federal Government) hard surfacing etc., in Estelline Rd. Dist. 3, State Highway 5, 18 ft. A. C. Hoffman, co. judge.

Tex., San Antonio—Bexar Co. making plans grading, graveling and surfacing with bituminous topping 12 mi. Castroville Rd., 16 ft. $148,000. A. C. Pancoast, co. engr.

Tex., Victoria—Victoria Co. election soon to vote on $500,000 bonds highway improvements. $300,000 will be appropriated by State and Federal Government. P. P. Putney, co. judge.

Okla., Cherokee—Plans grading and paving 6 blocks Main, 3rd and 4th Sts., 26 and 40 ft. $28,000. Peckham, Sutton & James, 227 West Grand St., Oklahoma City, engrs.

Okla., Oklahoma City — Plans grading and paving 14 blocks South 28th and North 18th Sts., 7,950 sq.yd. asphalt, 3,800 lin.ft. curbing, 3,800 lin.ft. guttering and 2,600 cu. yd. excav. $37,000. B. M. Hart, City Hall, engr.

Okla., Weleetka—Voted $26,000 bonds grading and paving 6 blocks Seminole and Creek Aves., 6,600 sq.yd. concrete, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 15.

Okla., Wewoka—Voted $149,357 bonds grading and paving 18 blocks Okfuskey, Plum and Mekosukey Sts., 27,450 sq.yd. vertical fibre brick, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Utah—State Road Comn., Salt Lake City, plans to expend $1,900,000 for roads during coming season. H. C. Means, state road engr.

Nevada — State Hy. Dept., Carson City, plans concrete and gravel surfacing 7 mi. Federal Aid Project 65, Washoe Co., $302,940, and 1.3 mi. Federal Aid Project 86, Humboldt Co., $27,306.

Oregon — State Hy. Dept., Salem, plans grading 13.68 mi. Federal Aid Project 101, Wasco Co., $113,894.

Ore., Eugene—Linn Co. plans permanent roads. $50,000.

Ore., Klamath Falls—Klamath Co. sold $233,000 bonds for road work.

Ont., Arnprior—Renfrew Co. soon takes bids 4½ mi. macadam on Provincial Highway. $80,000. A. Moore, co. engr.

Ont., North Bay—Soon takes bids 36,000 sq.yd. asphalt or bitulitic concrete pavement on 5 in. concrete. $150,000. W. Mackie, town engr.

Ont., Toronto—Plans grading Weller St. and Beaufort Rd. from Main St. to Glenmanor Rd., 50,000 cu.yd. excav., $10,030 and $15,768 respectively. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—Nov. 28, by E. Riegelmann, boro pres., Boro Hall, repaving Throop Ave. and Empire Blvd., permanent asphalt on 6 in. concrete.

N. Y., Long Island City—Nov. 26, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, laying sidewalks, etc., on Radcliffe St., Alstyne, Pierce, Atlantic and 90th Aves.; grading, curbing, laying sidewalks and sheet asphalt paving Prospect Ave., etc.; sheet asphalt paving 90th Ave., 76th and 84th Sts.; grading, curbing and laying sidewalks where necessary between 89th Ave. and 90th Rd.

N. Y., New York — Nov. 30, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., reconstructing pavement, curb and sidewalk on Manhattan approach of 3rd Ave. bridge.

N. Y., St. George — Nov. 28, by J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving roadway of Fisher Ave., bituminous concrete.

New Jersey—Dec. 5, by State Hy. Dept., Trenton, constructing Route 5, Sect. 12, Netcong-Canal Culvert, Morris Co. also Route 16, Sect. 6A, Bernardsville-Passaic River, Morris and Somerset Counties. A. L. Grover, ch. clk.; adv. E. N.-R. Nov. 22.

Pa., Ebensburg—Nov. 28, by Comrs. Cambria Co., reconstructing 21,800 lin.ft. Loretto-Chest Springs Rd., Allegheny Twp., 16 ft., brick or concrete. $80,000. C. C. Hauth, Trust Bldg., engr. Noted Oct. 4.

Pennsylvania—Dec. 11, by State Hy. Dept., Harrisburg, 21 mi. road work in Beaver, Delaware, Greene, Indiana, Jefferon, Somerset and Westmoreland Counties; adv. E. N.-R. Nov. 22.

West Virginia—Dec. 3, by State Rd. Comn., Charleston, grading 10 mi. Project 3304-A, Monroe Co., 6 mi. Project 3200, Logan Co., 7 mi. Project 3229, Taylor Co., 6.5 mi. Project 3278-A, Lewis Co., 5 mi. Project 3186, Preston Co., and 5 mi. Project 134, Hampshire Co.; bituminous macadam paving 2.1 mi. Project 131, and 4.2 mi. Project 132, Pocahontas Co., 5.6 mi. Project 3272, Preston Co., and 8 mi. Project 3274, Monongalia Co.; concrete paving 8.14 mi. Project 3160, Doddridge Co. E. B. Carskadon, secy.; adv. E. N.-R. Nov. 22.

West Virginia—Dec. 11, by State Rd. Comn., Charleston, paving with bituminous macadam 8.15 mi. Project 130 and 0.4 mi. Project 128, Fayette Co., 5 mi. Project 127-B, Greenbrier Co., 1.5 mi. Project 3276 and 7.4 mi. Project 3184, Barbour Co., grading 7.4 mi. Project 3190, and 2.4 mi. Project 3202-B, Wayne Co., 1 mi. Project 3165, Calhoun Co., 10.8 mi. Project 3279-A, Webster Co., 6 mi. Project 3203-D and 5 mi. Project 3203-E, Preston Co.; concrete paving 4 mi. Project 3116-C, Wood Co., and 3 mi. Project 3260, Ritchie Co., 0.2 mi. Project 3082-A-1, Wetzel Co.; bridges Project 3188, Wayne Co., Project 3162, Wetzel Co., Project 3167-B, Marshall Co., Project 3279, Webster Co., Project 3111, Gilmer Co., Project 2135, Marion Co., Projects 117 and 3033, Randolph Co., Projects 122-B and 3146, Grant Co. E. B. Carskadon, secy.; adv. E. N.-R. Nov. 22.

W. Va., Buckhannon—Dec. 10, by Upshur Co. and State Rd. Comn., at Court of Upshur Co., grading and concrete paving 7.05 mi. Buckhannon and Clarksburg Rd., Warren Dist, Project 3238-B. E. Philips, co. clk. E. B. Carskadon, secy. state road comn.

S. C., Aiken—Dec. 5, by Comrs. Aiken Co. grading, surfacing and bridging, etc., 11.4 mi. State Route 28, Federal Aid Project 212, 68,700 cu.yd. common excav., 28,027 cu.yd. sand clay, rein.-con. bridge with four 22 ft. spans, etc.

S. C., Hampton—Nov. 28, by Hampton Co. at office Goethe Twp. Hy. Comn., Estill, grading, surfacing and bridging 13.1 mi. State Route 33, Federal Aid Project 51, 113,000 cu.yd. common excav., 32,200 cu.yd. sand clay, creosoted timber bridge with nine 14 ft. spans. W. C. Cathey, 8 Scovil Bldg., Orangeburg, engr.

Fla., Bartow—Dec. 4, by Comrs. Polk Co., asphaltic paving 7 mi. Ayburndale Florencevilla Rd., alternate proposals, $120,000, 4 mi. Haskell Lakeland Rd., $60,000. Engineer not announced.

Fla., Tampa — Nov. 27, by City Comn., grading and paving with 2½ in. asphalt blocks, 10,650 sq.yd. Ida, Plymouth, Old, Stowell and Giddens Sts. $30,000. R. D. Martin, City Hall, engr.

Miss., Ashland—Nov. 24, by Benton Co. placing gravel on Federal Aid Project 90. $25,102.

Miss., Belzoni — Dec. 18, by Humphreys Co., grading, surfacing and bridging 9.779 mi. Federal Aid Project 58, 18 ft., concrete or equivalent. $327,032.

O., Akron—Nov. 26, by W. F. Peters, dir. Pub. Serv., grading, curbing, guttering, laying concrete sidewalks and paving 5,100 ft. North Main St., 20,200 sq.yd. vitr. brick or 16,800 sq.yd. asphalt 53,600 sq.ft. concrete sidewalks, etc. $175,000. E. A. Kemmler, Delaware Bldg., engr.

Ind., Spencer — Dec. 3, by Owen Co., grading and paving with crushed stone, etc., 22,414 ft. John Knox Rd., Lafayette Twp. $44,482. J. S. Green, aud.

Michigan—Dec. 11, by State Hy. Dept., Lansing, grading and surfacing 6.012 mi. Assessment Dist. Rd. 280, Tuscola and Lapeer Counties, 41,879 cu.yd. excav., 42,310 sq.yd. gravel. F. F. Rogers, state comr.

Ia., Clinton—Nov. 27 by Auditor Clinton Co., grading and concrete paving 14.53 mi. Lyons-Charlotte Primary Rd., 38,370 cu.yd. excav., 159,738 sq.yd. concrete, etc. Iowa Hy. Comn., Ames, engrs.

Ia., Clinton—Nov. 27, by Auditor Clinton Co., grading and concrete paving 1.391 mi. Clinton-Camanche Rd., 13,733 sq.yd. concrete, etc. Iowa Hy. Comn., Ames, engrs.

Ia., Sioux City — Dec. 4, by Auditor Woodbury Co., paving and incidental work on Moville-Correctionville Rd. Iowa Hy. Comn., Ames, engrs.

Ia., Webster City—Dec. 12, by Auditor Hamilton Co., grading 6.165 mi. primary road, 90,932 cu.yd. excav. Iowa Hy. Comn., Ames, engrs.

Minn., Duluth—Dec. 6, by R. W. Borgen, aud. St. Louis Co., grading 3.17 mi. road from Duluth to Miller Trunk Highway, 24 ft. $78,000. R. W. Acton, co. engr.

Kan., Bonner Springs—Dec. 10, by Clerk Wyandotte Co., (Kansas City) grading and surfacing 0.484 mi. Oak St. Nettleton and Kump Aves., Federal Aid Project 174, 24, 44 and 52 ft. respectively. O. K. Williamson, Kansas City, engr.

Kan., Phillipsburg—Nov. 30, at office County Clerk, constructing Pikes Peak Ocean to Ocean Highway; Project 166 Sect. A involves 0.946 mi. grading; Sect. B, steel and concrete bridge having one 80 ft. main span and two 30 ft. I beam approaches, and one 20 ft. rein.-con. slab bridge; Project 176, Sect. A, 2.981 mi. grading; Sect. B, I beam bridge with concrete floor having one 37 ft. center span and two 30 ft. end spans; also one 20 ft. rein.-con. slab bridge. C. E. Freeman co. engr.

Streets and Roads (Continued)

Missouri—Nov. 27, by State Hy. Dept., Jefferson City, 26 road projects and 17 bridges in various counties. $1,000,000. B. H. Piepmeier, state highway engr.

Ark., Little Rock—Dec. 4, by W. T. Field, engr., Gazette Bldg., paving 25,750 sq.yd. State St. from West 10th to West 20th Sts., also cross streets, rein.-con., plain concrete, Warrenite, sheet asphalt or asphaltic concrete on 5 in. concrete. $90,000.

Tex., Austin—Dec. 3, by G. S. Mathews, judge Travis Co. grading 5.57 mi. State Highway 2, Federal Aid Project 409, 24 ft. shoulder to shoulder. $27,977. O. Leonard, co. engr.

Tex., Cleburne—Dec. 4, by O. B. McPherson, judge Johnson Co. grading 302.65 stas., and reshaping roadbed, and hauling and placing 14,173 cu.yd. gravel on State Highway 10 A, State Aid Project 443. $39,106. R. E. Keller, co. engr.

Tex., Ft. Worth—Nov. 27, by City Com. improving Bunting St. and Ave. J, 11,275 sq.yd. Uvalde rock asphalt, warrenite bitulithic or 3 in. brick, 7,390 ft. curb and gutter, 2,850 cu.yd. excav., $45,000; Ave. I and Essex St., 11,900 cu.yd. brick, amiesite, warrenite bitulithic or Uvalde rock asphalt, 7,420 ft. curb and gutter, 3,000 cu.yd. excav., $50,000. D. L. Lewis, city engr. Noted Nov. 22.

Tex., Palestine—Dec. 10, by W. C. Quick, judge Anderson Co., grading and surfacing with rein.-con. 9.7 mi. State Highway 19, Federal Aid Project 403 A, 16 and 18 ft. $358,900. E. W. Davis, co. engr.

Tex., Palo Pinto—Dec. 6. by E. L. Pitts, judge Palo Pinto Co. paving with vitr. brick 35,149 sq.yd. State Highway 1, from Mineral Wells to Parker Co. line, involves 42,180 lin.ft. concrete curbing. $92,500. G. W. Courter, co. engr.

Washington—Dec. 4, by State Hy. Comn., Olympia, grading and gravel surfacing 2.5 mi. State Rd. 4, from Wilbur to Clark, Lincoln Co. J. Allen, state highway engr.

California—Dec. 3 by State Hy. Comn., Sacramento, concrete paving 9.9 mi. Redding-Bayha Rd., Shasta Co., 69,000 cu.yd. embankment, 33,000 cu.yd. overhaul, 52,150 lin.ft. subgrade, 22,220 cu.yd. Class A concrete pavement, etc. R. M. Morton, state highway engr.

Calif., Los Angeles—Dec. 3, by Supervs. Los Angeles Co., grading, removing old macadam and repaving with concrete 2.65 mi. Compton-Clearwater Rd., 13,655 cu.yd. excav., removing 4,667 cu.yd. old macadam base, 37,966 sq.yd. concrete, etc. County will furnish 10,000 bbl. cement.

Calif., Watts—Receiving bids 6 in. concrete paving 108,085 sq.ft. Ruoff St., and 99,598 sq.ft. Randolph St.; 5 in. concrete paving 71,651 sq.ft. Hickory St. L. D. House, city engr. Noted Nov. 15.

BIDS RECEIVED

New York — L. Grossman, comr. Highways, and W. A. Patton, secy. Bureau Highways, Albany, Nov. 16, constructing and reconstructing 2.83 mi. Repair Contr. 3074, Highway 99, Rochester-Webster, Part 2, Monroe Co., from O. Costich Co., Inc., Exchange Pl. Bldg., Rochester, $126,392; 7.18 mi. Repair Contr. 1393-3070, Highway 5481, Wellsville-Andover, Allegany Co., from H. W. Patterson, Hornell, $229,548; 3.85 mi. Highway 1674, Castleton-Stuyvesant, Part 1, Rensselaer Co., from E. J. Bailey, Brocton, $213,731; 2.56 mi. Highway 8161 Cincinnatus-Taylor-Pitcher Part 2, and Pitcher-South Otselic, Cortland and Chenango Counties, from Johnson Constr. Co., Buffalo, $275,551; 8.58 mi. Highway 8163, Stephentown-Center Berlin, Rensselaer Co., from A. G. Horn, Albany, $157,496; 0.36 mi. Highway 1682, Barge Canal, Lock 9, Connection, Schenectady Co., from J. C. Conners, Inc., 424 State St., Schenectady, $21,159; 8.79 mi. Highway 8156, Woodville-Bristol Springs and Bristol Springs-Cheshire, Part 1, Ontario Co., from F. H. Wells, Savannah, $269,655; 2.56 mi. Repair Contr. 3072, Highway 716-1010, Livonia-Lakeville, Livonia Village, Livingston Co., from T. F. Murray, LeRoy, $97,809; 5.12 mi. Highway 1678, Bennettsburg-Perry City, Part 1, Schuyler Co., also 1.85 mi. Repair Contr. 1392-3071, Highway 358, Horseheads-Corning, Chemung Co., from W. L. and F. A. Frost, Watkins, $206,188 and $70,493 respectively. Noted Nov. 1.

N. Y., Albany—Bd. Contr. & Supply, grading and laying sewers in Pinewood Ave., from S. Easton, 113 Homestead Ave., $19,459; Hollywood Ave., from F. Sheehan, 446 Yates St., $15,264.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., paving Buckley St., granite block, from Welsh Bros. Contg. Co., 32 Queens St., Astoria, $13,974, 102nd St., sheet asphalt, from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $54,760; grading sidewalk space and gutters in Caffrey Ave., from R. A. Hess, Inc., 14 Queens St., Astoria, $2,660; grading, curbing, recurbing, flagging, reflagging, etc. 102nd St., from J. J. O'Brien, Jr., William St., Jamaica, $18,124. Noted Nov. 8.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Nov. 16, grading, curbing, flagging, reflagging and granite block paving West 155th St., from Casper Helbock, Inc., Harlem River and 150th St., $100,555. Noted Nov. 8.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Nov. 16, paving Gifford Lane, bituminous macadam, from J. Johnson Sons, 455 Bway., West New Brighton, $33,774. Noted Nov. 8.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete repaving Center and Moore Sts., from J. Johnson Sons, 455 Bway., West New Brighton, $20,960. Noted Nov. 8.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving Westervelt Ave., granite block, from C. Vanderbilt, 24 Elizabeth St., West New Brighton, $27,630. Noted Nov. 8.

N. J., Millville—State Hy. Dept., Trenton, Nov. 14, improving 19,427 sq.yd. Route 15, Sect. 4, Main St., here, also reconstructing 5,247 lin.ft. trolley track on same, from Newark Paving Co., 133 1st St., Newark, 91% engrs. est. ($143,252). Noted Nov. 1.

Maryland — State Hy. Dept., Baltimore, paving 2.37 mi. Park Heights Ave., 60,000 sq.yd. bituminous macadam on concrete, Contr. BC-41, Baltimore City, from Hudson Paving Co., 2875 Bway., New York City, $263,635; 1.04 mi. Crystal Springs Ave., 9,450 sq.yd. gravel surface, Prince Georges Co., Contr. P-46, from E. R. P. Smith, Hyattsville, $8,980. Noted Nov. 1.

Louisiana—State Hy. Dept., Baton Rouge, 4.47 mi. State Aid Project 337, Vernon Parish, from J. J. Besson, Fullerton, $26,362.

Ohio—Dept. Highways and Pub. Wks., Columbus, Nov. 14, grading, bridging and paving with **(a)** rein.-con. **(b)** asphaltic macadam **(c)** tar macadam **(d)** brick and bituminous macadam, asphalt **(e)** rein.-con. and brick **(f)** bituminous macadam, asphalt **(g)** brick **(h)** bituminous concrete **(i)** Kentucky rock asphalt **(j)** concrete following roads: **(1)** 2.554 mi. Sect. "B" Marietta-Athens Rd., Athens Co. **(2)** 1.047 mi. Sect. "P" Ohio-River Rd., Columbia Co. **(3)** 3.463 mi. Sect. "J-1" Twinsburg-Elyria Rd., Cuyahoga Co. **(4)** 1.827 mi. Sect. "J-2" Twinsburg-Elyria Rd., Cuyahoga Co. **(5)** 3.02 mi. Sect. "C" Archbold-Defiance Rd., Defiance Co. **(6)** 3.396 mi. Sect. "C" Bryant-Ft. Wayne Rd., Defiance Co. **(7)** 2.112 mi. Sect. "A" Hicksville-Auburn Rd., Defiance Co. **(8)** 0.166 mi. Sect. "Leesburg North" Hillsboro-Washington Rd., Highland Co. **(9)** 0.208 mi. Sect. "Leesburg South" Hillsboro-Washington Rd., Highland Co. **(10)** 0.173 mi. Sect. "Hillsboro" Hillsboro-Chillicothe Rd., Highland Co. **(11)** 1.628 mi. Sect. "F" Ironton-Miller Rd., Lawrence Co. **(12)** 2.939 mi. Sect. "S" New Lexington-Athens Rd., Perry Co. **(13)** 2.821 mi. Sect. "B" Van Wert-Rockford Rd., Van Wert Co. **(14)** 2.825 mi. Sect. "E" Van Wert-Rockford Rd., Van Wert Co. **(15)** 0.521 mi. Sect. "Ohio City" Van Wert-Rockford Rd., Van Wert Co.; grading **(16)** 4.867 mi. Sect. "Y" Glendale-Milford Rd., Hamilton Co. **(17)** 2.78 mi. Sect. "M" Pomeroy-Marietta Rd., Meigs Co. **(18)** 3.538 mi. Sect. "A-1" Dennison-National Rd., Tuscarawas Co. **(19)** 5.869 mi. Sect. "H" Marietta-Athens Rd., Washington Co. **(20)** Sect. "B" Bryan-Eldon Rd., Williams Co. **(21)** 0.336 mi. Sect. "Blakeslee" Bryan-Eldon Rd., Williams Co.; paving **(22)** 4.867 mi. Sect. "Y" Glendale-Milford Rd., Hamilton Co.; bridge on **(23)** Sect. "A" Jackson-Gallipolis Rd., Jackson Co., from F. H. Beckler, Athens, **(a1)** $88,171; Mariner & Co., Athens, **(b1)** $74,223 **(c1)** $74,223; Tatgenhorst & McLaughlin, East Liverpool, **(d2)** $79,233; D. Aller, Findlay, **(e3)** $168,848 **(e4)** $93,305; R. Doaust, Defiance, **(a5)** $85,701 **(a6)** $90,901 **(a7)** $51,599; A. C. Schmenk, Ottawa, **(b5)** $68,955 **(c5)** $70,664; Harris & Lindenmuth, Hicksville, **(f6)** $77,633; J. A. Elder, Bryan, **(c6)** $79,508; P. B. Putnam, Van Wert, **(c7)** $47,978 **(f7)** $47,978; A. K. Grandle, Leesburg, **(g8)** $7,432 **(g9)** $10,532 **(g10)** $8,453; G. B. Walther, 425 Amer. Bank Bldg., Lima, **(h8)** $7,099 **(h9)** $10,102 **(h10)** $8,027; M. J. Cooney, Springfield, **(f8)** $6,855 **(i9)** $9,812 **(g10)** $8,453 **(i10)** $7,774; Jenkins Bros., Kitts Hill, **(c11)** $55,868; C. Mahl, Ironton, **(f11)** $55,335; Ebersbach Constr. Co., Pomeroy, **(a12)** $121,056; Ada Constr. Co., Ada, **(b12)** $103,469 **(c12)** $103,759 **(19)** $78,103; Hinton & Smalley, Celina, **(a13)** $68,357 **(a14)** $64,716 **(a15)** $11,293; Putnam & Shindeldecker, Van Wert, **(b13)** $60,933 **(c13)** $61,461 **(i13)** $67,409 **(b14)** $57,147 **(c14)** $57,678 **(i14)** $63,614 **(b15)** $9,978 **(c15)** $10,074 **(i15)** $11,178; Scott-Kash Constr. Co., Cincinnati, **(j16)** $55,677; Forrest Constr. Co., Forrest, **(h16)** $61,927; Fox-Nixon Constr. Co., Columbus, **(17)** $35,557; G. F. Druschel, Kenton, **(18)** $46,124; F. F. Walton, Upper Sandusky, **(20)** $19,934; L. C. Bell, West Mansfield, **(21)** $1,298; W. Huber, Eaton, **(j22)** $163,884; Andrews Asphalt Paving Co., Hamilton, **(k22)** $188,157; I. J. Kuhner, Jackson, **(23)** $3,813. Noted Nov. 8.

Michigan — State Hy. Dept., Lansing, grading 9.939 mi. Federal Aid Project 82, Sect. B, Washtenaw Co., from F. Carpenter and W. B. Orr, Jackson, $69,811.

Tex., Clarksville—Red River Co. grading and clay surfacing 5.95 mi. State Highway 37, Federal Aid Project 406, 257.77 cu.yd. concrete, 43,886 cu.yd. roadway and 20,677 cu.yd. borrow excav., 21,718 lb. reinforcing, 6,132 cu. yd. clay, etc., from McGuire & Cavender, Sherman, $25,447. Noted Oct. 25.

Tex., Ft. Worth—Paving with 2 in. bitulithic Wabash, Tennessee, Lilac and Chambers Sts., from West Texas Constr. Co., Cotton Exch. Bldg., $3.18; Uvalde rock asphalt on 5 in. base on North Houston and Terrell Sts., from General Constr. Co., Cotton Exch. Bldg., 2 in. $3.10, 1½ in. $2.80. Noted Nov. 8.

Tex., Marlin—Falls Co., grading, gravel surfacing and bridging 5.68 mi. State Highway 44, Rd. Dist. 3, State Aid Project 410 B, 230 cu.yd. concrete, 19,547 cu.yd. roadway and 44,320 cu.yd. borrow excav., etc., from Brown & Root, Georgetown, $59,764. 14,154 cu.yd. gravel furnished by county $25,200, engrs. est. $101,146; 7.65 mi. State Highway 44, Federal Aid Project 331 B, 524 cu.yd. concrete, 24,150 cu.yd. roadway, 30,866 cu.yd. borrow excav., 72,895 lb. reinforcing steel, from Huse Popejoy & Bro., Marlin, $42,680, 19,949 cu.yd. gravel to be furnished by county $34,900, engrs. est. $92,854. Noted Nov. 1.

Okla., Marlow—Grading and paving 11 blocks Bway., 13,900 sq.yd. asphalt, 5,000 cu.yd. excav., from Tibbets & Pleasant, Daniels Bldg., Tulsa, $71,807. Noted Nov. 8.

Nevada—State Hy. Comn., Carson City, grading and gravel surfacing 11.81 mi. road between Eastgate and east county line (Carroll Summit), Churchill Co., from F. Coolidge, Laramie, Wyo., $173,147; grading 3.35 mi. from Lawtons to point 2 mi. east of Verdi, from C. Miles, 2500 L St., Sacramento, $74,695. Noted Oct. 25.

Ore., Astoria — Improving streets in burned area, 62,000 cu.yd. filling, 340,000 ft. new plank laid, relaying 200,000 ft. plank, 8,100 lin.ft. 2 in. plank 12 ft. wide, from Gilpin Constr. Co., Worcester Bldg., Portland, cost plus 10%; A. J. Webster, $102,968.

California—State Hy. Comn., Sacramento, grading and surfacing with crushed gravel 8.9 mi. road between point 2 mi. south of Hornbrook and Oregon State Line, Siskiyou Co., from Dunn & Baker, Klamath Falls, Ore., $205,000 (150 days), $196,940 (200 days). Noted Nov. 1.

Calif., Bakersfield—Kern Co., grading and paving Arvin and Weed Patch and Di Girogia Farms Rds., Impvt. Dist. 26, 38,400 cu.yd. excav., 890,724 sq.ft. 2 in. asphaltic concrete on 4 in. bituminous base, etc., from Griffith Co., Railway Bldg., Los Angeles $238,000. Noted Nov. 1.

Calif., Riverside—Riverside Co., grading, curbing and paving Route 8, Beaumont to foot of Moreno grade, Jack Rabbit Trail, 19,300 lin.ft. shaping, 19,300 lin.ft. (1) 6 in. asphaltic concrete (2) 6 in. macadam (3) 5 in. National, (4) 5 in. Willite, from G. R. Curtis, 2440 East 26th St., Los Angeles, (1) $73,890 (2) $80,066; G. M. Pearson, Riverside (2) $58,171; G. H. Oswald, 366 East 58th St., Los Angeles, (4) $81,132. Noted Oct. 25.

Calif., Visalia—Improving Hall Ave., West Center and North Giddings Sts., 4,631 cu.yd. grading, 212,757 sq.ft. 1½ in. warrenite bitulithic on 4 in. base, etc., from Valley Paving and Constr. Co., Visalia, $58,997. Noted Nov. 1.

CONTRACTS AWARDED

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, regrading, curbing, flagging and reflagging West 165th St., to Fleming Shepard, Inc., 116 Broad St., $11,046; repaving Riverside Dr., stone filled sheet asphalt, to Asphalt Constr. Co., 208 Bway., $137,857. Noted Nov. 8.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving Richmond Ave. and St. Marks Pl., bituminous macadam, to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $40,874 and $7,810 respectively. Noted Nov. 15.

N. C., Mt. Gilead—Asphaltic concrete paving 17,500 sq.yd. various streets, to R. G. Lassiter Co., Citizens Bank Bldg., Raleigh, $46,375. Noted Sept. 13.

N. C., Salisbury — Sheet asphalt paving 40,000 sq.yd. various streets, to Ely Constr. Co., Augusta, Ga. $166,000.

Streets and Roads (Continued)

N. C., Troy—Sheet asphalt paving 20,000 sq.yd. various streets, to W. F. Bowe, Jr., Augusta, Ga., $53,800.

Fla., Tampa—Improving Adalee St., Du Boise and Campbell Aves., to W. L. Harwell, 721 South Orleans Ave., $30,725; Genesee St., to Cone Bros., Tampa, $4,039. Work involves 10,790 lin.ft. granite curbing and 12,520 sq.yd. 2½ in. asphalt blocks.

Alabama—State Hy. Dept., Montgomery, paving with asphalt 0.75 mi. Anniston-Camp McClellan Rd., Calhoun Co., 20 ft., to Morgan-Hall Paving Co., Woodward Bldg., Birmingham, $30,386. Noted Oct. 25.

Miss., New Albany—Surfacing 20 mi. in Rd. Dists. 1, 2 and 3, to Nixon & Phillips, Water Valley, $35,000. Noted Oct. 25.

Kentucky—State Hy. Dept., Frankfort, improving roads, (F.A.P. means Federal Aid Project, S.P., State Project) grading 7.32 mi. Jackson-Compton Rd., 24 and 28 ft. F.A.P. 102, Breathitt Co., to North Fork Constr. Co., North Fork, $204,819. 2.6 mi. Louisville-Paducah Rd., 24 and 28 ft., F.A.P. 105, Sect. A, Daviess Co., to Costello Bros., Henson Bldg., Knoxville, Tenn., $25,-022; gravel surfacing 9.2 mi. Hortons Gap-Christian Co. line Rd., 18 ft., F.A.P. 41, Sect. G Hopkins Co. and 29.2 mi. Henderson-Hopkins Co. line Rd., 18 ft., F.A.P. 34, Sect. F, Webster Co., to Peacock Constr. Co., Yale, Mich., $95,003 and $209,803 respectively, 5.795 mi. Calhoun-Owensboro Rd., 18 ft., S.P. 10, Sect. A, McLean Co. and 8.4 mi. Henderson-Dixon Rd., 18 ft., F.A.P. 42, Sect. A, Henderson Co., to Corum Bros., Madisonville, $60,497 and $155,948 respectively, 7.5 mi. road from Webster Co. line to Madisonville, 18 ft., F.A.P. 41, Sect. F. Hopkins Co., to N. E. Stone & Co., Madisonville, $136,604; with waterbound macadam 7 mi. Lexington-Mayesville Rd., 18 ft. S.P. 20, Sect. J, Nicholas Co., to J. S. Walton, Princeton, $39,446. Noted Nov. 1.

O., Lakewood (Cleveland, P. O.)—Paving 4 streets, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $34,951.

Michigan — State Hy. Dept., Lansing, grading and surfacing 6.38 mi. Federal Aid Project 66, Sect. C, St. Joseph Co., to A. E. Campbell, Kalamazoo, 34,946 cu.yd. excav. $0.55, 74,760 sq.yd. 8 in. rein.-con. pavement $1.60, etc., total $144,780. Noted Oct. 18.

Michigan—State Hy. Dept., Lansing, grading and surfacing 5.714 mi. State Trunk Line Rd. 32-6, Sect. A, Montmorency Co., to Lorch & Cadwell, Boyne City, 29,742 cu.yd. excav. $0.38, 54,393 sq.yd. gravel surface $0.625, etc., total $52,945.

Minnesota—State Hy. Dept., St. Paul, 7 mi. State Project 1-39, Div. B, Federal Aid Project 296, Steele Co., 116,000 cu.yd. excav., to Cameron & Joyce, Keokuk, Ia., $46,662, culverts to Guaranty Constr. Co., 361 Essex Bldg., Minneapolis, $4,623; 15 mi. State Project 3-34, Federal Aid Project 203, Houston Co., 300,000 cu.yd. excav. to Winston Bros., 81 Globe Bldg., Minneapolis, and G. J. Grant Constr. Co., 902 Exchange Bank Bldg., St. Paul, $179,383, culverts to D Graham, Hibbing, $24,852; State Project 5-34, Federal Aid Project 92, Anoka Co., 126,000 sq.yd. concrete paving to Universal Eng. Co., Ingram Bldg., Eau Claire, Wis., $307,871, 11,700 cu.yd. gravel surfacing to Central Road Constr. Co., Minneapolis, $25,-770; 17 mi. State Project 16-21, Federal Aid Project 314, Cottonwood Co., grading to Spencer & Chambers, Marshall, and Stevens Bros., Piedmont Bldg., St. Paul, $61,885 and $68,004 respectively; State Project 16-22, Federal Aid Project 315, Murray Co., 76,000 cu.yd. excav., to Lobnitz Grading Co., Olivia, $24,990, culverts to C. H. Hanson, Atwater, $4,711. Noted Oct. 18.

Minn., Mendota — Hennepin Co. (Minneapolis) 3½ mi. approach to south end of proposed bridge over Minnesota River, here, grading to Erickson-Johnson Constr. Co., 1811 East Lake St., Minneapolis, $47,220; culverts to E. E. Talbert, Crystal Bay, $10,-324. Noted Nov. 1.

Kan., Anthony—Harper Co. grading and sand clay surfacing 9.521 mi. Project 155, Sect. A and 9.987 mi. Federal Aid Project 154, Sect. A, both 18 ft., to Shultz & Shultz, Wichita, $93,715 and $69,139 respectively. Noted Sept. 13.

Kan., Norton—Norton Co., grading 7.528 mi. Pikes Peak Ocean to Ocean Highway, 29½ ft., Federal Aid Project 143, Sect. A, to A. L. Cook, Ottawa, Kan. $38,587. Noted Sept. 27.

Ark., Little Rock—J. Mathews, Southern Trust Bldg., principal owner of subdivision, will buy materials and construct 4 mi. Little Rock-Westwood Rd., Dist. 50, 24 ft., by day labor. Dickinson & Watkins, Boyle Bldg., engrs.

Tex., Cameron—For 50,000 sq.yd. Uvalde rock asphalt, to W. E. Dozier, Austin Natl. Bank, Austin, $83,000. Noted Nov. 1.

Tex., Center—Concrete paving 22,290 sq. yd. various streets, to Brammer & Wilder, Stewart Bldg., Houston, $2.65 per sq.yd., total $40,132. Noted Oct. 25.

Tex., Kountze—Hardin Co. gravel surfacing various roads to Brammer & Wilder, Houston, 1.31 mi. State Highway 8, 16 ft., $52,800, 4.43 mi. State Highway 8, 16 ft., $49,000, 11.5 mi. State Highway 40, 16 ft., $101,800, 9.45 mi. Federal Aid Project 354 A, $89,000; to J. H. Sullivan, Nacogdoches, improving Kountze-Beaumont Rd., 16 ft., incl. 20,000 sq.yd. iron ore gravel $1.16. Noted Oct. 25.

Okla., Blackwell—Paving 1,130 sq.yd. 2½ in. brick and 13,700 sq.yd. 6 in. concrete, to O. T. Tyler, Blackwell, $53,051. Noted Oct. 25.

Okla., Guymon—Constructing and paving various streets, 12,434 sq.yd. vertical fibre brick, 4,050 lin.ft. curbing and guttering, 4,350 cu.yd. excav., 1,969 ft. 12 and 18 in. storm sewer, 4,800 sq.ft. sidewalks and 4,480 lin.ft. cable for "White Way," to J. Stanton, 6th and Kiowa Sts., Leavenworth, Kan., $70,877. Noted Nov. 1.

Okla., Oklahoma City—Grading and paving 10 blocks B, 44th and 45th Sts., 5,200 sq.yd. asphalt, 2,600 lin.ft. curbing, 1,840 cu.yd. excav., to Western Paving Co., Tradesmerr Bldg., $24,979.

Washington—State Hy. Comn., Olympia, grading and gravel surfacing 11.7 mi. State Rd. 13, Inland Empire Highway from Wallula to Burbank, Walla Walla Co., to C. L. Creelman, 1,079 25th St. N., Seattle, 47,380 cu.yd. earth excav. $0.245, 4,760 cu.yd. gravel surface base $1.57, 13,830 cu.yd. gravel surface top $1.62, etc., total $47,246; 2.9 mi. Permanent Highway 9, from Anacortes east, Skagit Co., to Bressaloff & Brice, Mt. Vernon, 18,280 cu.yd. earth excav. $0.62, 2,920 cu.yd. loose rock excav. $0.80, 2,180 cu.yd. solid rock excav. $1.60, 1,060 cu.yd. gravel surfacing $1.60, etc., total $29,514; 5.7 mi. Pend O'Reille Highway from Jared to Blue Slide, Pend O'Reille Co., to N. A. Dagerstrom, Spokane, 63,040 cu.yd. earth excav. $0.43, 3,490 cu.yd. loose rock excav. $0.65, 10,480 cu.yd. solid rock $1.50, 5,000 cu.yd. loose rock borrow $1, 5,910 cu.yd. solid rock borrow $1, 9,280 cu.yd. crushed gravel surface $1.50, total $83,375; 12.2 mi. State Rd. 7, North Central Highway from Odessa west, Lincoln Co., to Woodruff & Wilson, Prosser, 40,680 cu.yd. earth excav. $0.30, 7,900 cu.yd. loose rock excav. $0.70, 17,390 cu.yd. solid rock excav. $1.95, 7,100 cu.yd. rock surface $1.95, 12,440 cu.yd. gravel $1.70, total $94,379; 4 mi. extension from State Highway, Anatone to Asotin, Asotin Co., to Rumsey & Jordan, Spokane, 42,750 cu.yd. earth excav. $0.28, 37,100 cu.yd. loose rock $0.58, 3,560 cu.yd. solid rock excav. $1.25, total $48,150. Noted Oct. 4.

Wash., Seattle—Bd. Pub. Wks., paving and grading Avalon Way, 41,144 sq.yd. 7 in. concrete, 15,550 sq.yd. 6 in. concrete, 4,532 lin.ft. asphaltic concrete and 21,850 lin.ft. concrete curbing, etc., to Goetz & Brennan, Seaboard Bldg., $294,808. Engrs. est. $290,735. Noted Nov. 15.

Ore., Baker—Baker Co., grading and macadam surfacing 12,900 ft. Mason-Salisbury Sect., Lockhart Market Rd., 24 ft., to T. Knudson, Portland, $36,145. Noted Nov. 8.

Calif., Bakersfield—Grading, curbing, paving, etc., portions 21st and R Sts., etc., 220,375 ft. grading, 220,375 ft. 3½ in. asphaltic concrete base and 1½ in. warrenite surface, 11,829 ft. concrete gutter, etc., to Union Paving Co., 620 Call Bldg., San Francisco, $73,003. Noted Nov. 15.

Calif., Newport Beach—Improving Ocean Blvd., etc., 147,644 sq.ft. 6 in. clay and gravel surfacing, 16,680 sq.ft. 5 in., 152,080 sq.ft. 6 in., and 212,354 sq.ft. 8 in. concrete pavement, 20,200 lin.ft. concrete curb and 101,760 sq.ft. concrete walks, etc., to California Constr. Co., Union Bldg., San Diego, $276,506. Noted Oct. 18.

Calif., Stockton—San Joaquin Co., improving 2.5 mi. Kettleman Rd., to Irey & Holden, Lodi, 2,900 cu.yd. grading $0.50, 5,390 tons gravel $2.25, 1,830 tons crushed rock top $3,850 ton dressing for oil $3.10, 700 bbl. asphalt oil $4, etc., total $24,423. Noted Oct. 25.

Ont., Richmond Hill—Paving 1 mi. Yonge St., 16,000 sq.yd. bitulithic on concrete with concrete curbs and gutters, to Warren Bituminous Paving Co., 54 University Ave., Toronto, $70,000. Noted Oct. 11.

Industrial Works

PROPOSED WORK

Conn., Darien—Cherry Lawn School plans central heating plant, sewage disposal plant, etc. $200,000. W. R. Steinmetz, Greely Bldg., Stamford, archt.

Conn., Waterbury — Waterbury Farrel Fdry. Co. had plans prepared by Westcott & Mapes, 207 Orange St., New Haven, 2 story, 48 x 52 ft. factory, brick and steel, plain foundation, Bank St. $40,000.

Conn., Putnam—Putnam Fdry. & Machine Co., Mechanics St., plans 1 story, 100 x 160 ft. foundry, brick and steel, plain foundation. $40,000. Private plans.

N. Y., Newburgh—Crawshaw Carpet Co., 635 Bway., soon takes bids 2 story, 50 x 106 ft., storage and manufacturing plant, Bway. $50,000. Lockwood-Greene & Co., 101 Park Ave., New York City, archts. and engrs. Noted Oct. 25.

N. Y., New York—Reo Motor Car Co., 1709 Bway., soon takes bids 4 story, 100 x 175 ft., rein.-con., brick, and steel service station, plain foundation, West 55th St. $200,000. Parker & Shaffer, 280 Madison Ave., archts. and engrs.

N. Y., Niagara Falls—Carborundum Co., Buffalo Ave. and 18th St., plans concrete and tile factory, Buffalo Ave. $60,000. Private plans.

N. Y., Rochester—Verwey Printing Co., 15 Euclid St., plans 2 story printery, 52 James St. $50,000. Will mature in summer. Engineer and architect not announced.

N. Y., Rome — Rome Mfg. Co. having plans prepared by Lockwood-Greene & Co., archts. and engrs., 101 Park Ave., New York City, 1 story rein.-con. and steel factory, also 2 story, brick and steel warehouse. $210,000.

N. Y., Watertown—Northern New York Utilities, Inc., 58 Public Sq., plans electric plant and generating station, etc. $150,000.

Pa., Carlisle—C. H. Masland & Sons, Carlisle, soon take bids 3 story, 250 x 600 ft. rein.-con., brick and steel plant, plain foundation. Lockwood-Greene & Co., 101 Park Ave., New York City, archts. and engrs. Noted May 3.

Pa., Frankford (Phila. P. O.)—Frankford Grocery Co., Inc., Penn and Unity Sts., plans 1 story, 45 x 100 ft. garage and 4 story, 64 x 89 ft. concrete warehouse. W. E. S. Dyer, Land Title Bldg., Phila., archt. and engr.

W. Va., Morgantown—Preston County Light & Power Co., plans light and power plant. $100,000. Takes bids azout Jan. 1. Engineer not announced. H. C. Greer, Dir.

N. C., Greensboro—City plans abattoir. Bond election after Jan. 1. Architect not selected.

Fla., Tampa—Interstate Investment Co., Citizens Bank Bldg., plans 3 story, 120 x 600 ft. warehouse, 1 story, 60 x 500 ft. tobacco warehouse, cold storage plant 250,-000 cu.ft. floor space, 2 story, 150 x 200 ft. mercantile building, and 1 story, 150 x 600 ft. wharf shed, rein.-con. and brick. $1,000,000. Lockwood & Green, Healy Bldg., Atlanta, Ga., engrs.

Ala., Birmingham—Harris Transfer Co., 26 North 19th St., takes bids about Jan. 1, first unit, 7 story, 200 x 300 ft., concrete warehouse, 5th Ave. S. $300,000. Architect and engineer not selected.

Miss., Jackson—Enochs Lumber & Mfg. Co. plans to rebuild plant recently destroyed by fire, Pearl St. $250,000.

Miss., Jackson—Morris Ice Co. plans to rebuild factory recently destroyed by fire, Pearl St. $175,000.

La., New Orleans—Woodward, Wight & Co., Howard Ave., purchased 330 sq.ft. site on Constance and St. Joseph Sts. and plans warehouse.

Ky., Louisville—Standard Sanitary Mfg. Co., 6th and A Sts. plans brick and steel foundry and factory, etc., 6th and Shipp Sts. $1,500,000. Engineer and architect not selected.

O., Cleveland—Bourne Fuller Co., c/o A. H. Preston, Hanna Bldg., had plans prepared 1 story, 65 x 300 ft. and 62 x 300 ft. brick and steel warehouse additions, Lakeside Ave. $150,000. Private plans.

O., Cleveland—Echo Dairy Co., 7103 Aetna Rd., had plans prepared by A. F. Janowitz, 811 Prospect Ave., 2 story, 50 x 115 ft., brick, steel and concrete factory and garage, Crane Ave. $60,000.

O., Cleveland—Fixit Body & Repair Co., c/o E. M. Hauserman, secy.-treas., 2075 East 65th St., plans 2 story, brick factory addition, East 65th St. and Carnegie Rd. $50,000. Private plans.

Industrial Works (Continued)

O., Cleveland—P. A. Geier Co., 540 East 105th St., had plans prepared by Christian, Schwarzenberg & Gaeda, 1900 Euclid Ave., 4 story and basement, 80 x 240 ft., brick, steel and rein.-con. factory, East 105th St. north of St. Clair Ave. $200,000.

O., Cleveland—J. W. Ladd Co., 758 Woodland Ave., having plans prepared by Walker & Weeks, 1900 Euclid Ave., 3 story and basement, 48 x 102 ft., brick and concrete warehouse and display rooms, 1607 East 21st St. $150,000.

O., Cleveland—Natl. Biscuit Co., c/o H. Zimmerman, constr. mgr., 85 9th Ave., New York City, plans brick, steel and concrete baking plant, East 83rd St. and Woodland Ave., here. $500,000.

O., Elyria—J. Spang Baking Co., c/o J. Spang, 2701 Barber Ave., Cleveland, having plans prepared by E. Huberty, 8017 Whitethorn Ave., Cleveland, 2 story, brick and steel bakery addition. $50,000.

Ill., Chicago — Asbestos Products Co., 2100 Fullerton Ave., plans factory addition, mill construction. $75,000. F. D. Chase, Inc., 645 North Michigan Ave., archt.

Ill., Chicago—H. J. Liedberg, archt., 77 West Washington St., receiving bids 1 story, 75 x 125 ft., garage, fireproof, Western Ave. near Montrose Ave. $50,000. Owner's name withheld.

Wis., Manitowoc—Holy Family Hospital, c/o Sisters of Christian Charity, having preliminary plans prepared by E. Brielmaier & Sons, 432 Bway., Milwaukee, 2 story, 52 x 100 ft. boiler house and service building, brick and concrete, plain foundation. $60,000.

Wis., Prairie du Chien—General Cigar Co., Portage, rejected bids 2 story, 40 x 72 ft., brick and timber warehouse, plain foundation. New bids later. $40,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts. Noted Sept. 27.

Ia., Denison—G. W. Newcomb having preliminary plans prepared by E. L. Barber, Denison, 2 story and basement, 80 x 150 ft. garage, brick and tile. $40,000.

Mo., Moberly — Wabash R.R. Co., Ry. Exch. Bldg., St. Louis, plans rein.-con. and brick addition to shops and 16 new stalls, here A. C. Cunningham, c/o owner, ch. engr.

Mo., Mountain Grove—Nov. 27, to vote on $40,000 bonds light plant.

Mo., St. Louis—Warren Steel Casting Co., 3400 Maury Ave., having revised plans prepared by O. J. Popp, Odd Fellows Bldg., 1 story, 60 x 200 ft., rein.-con. and steel foundry, Kingshighway. $60,000. Former bids rejected. Noted Sept. 6.

Ark., Forrest City—Vaccaro-Drobmeyer Co. had plans prepared by J. L. Gatling, Madison Ave. Bldg., Memphis, Tenn., 3 story, 109 x 150 ft., warehouse and sales office, concrete. $40,000.

Ark., Hot Springs—W. Dodson, 625 Central St., having plans prepared by S. M. Frank, 2 story, garage and display room, brick and stone. $40,000.

Ark., Little Rock—Missouri and North Arkansas Rd. Dist. plans to expend $500,000 for concrete roads. Ford & MacCrea, Gazette Bldg., engrs.

Tex., Breckenridge—Hanlon Gasoline Co. plans casinghead plant, 50,000 gal. daily capacity. $2,000,000. Private plans.

Tex., Dallas—J. B. Dugger, 1924 Main St., had plans prepared by Lang & Witchell, Amer. Exch. Natl. Bank, 2 story, 45 x 100 ft., brick, stone and rein.-con. $75,000.

Tex., Ft. Worth — Roe Nichols Oil Co., Oklahoma City, Okla., making plans new refining plant, here. $100,000 incl. machinery.

Tex., Fort Worth—Trans-Continental Oil Co., W. T. Waggoner Bldg., had plans prepared lubricating oil plant addition. $200,000. Private plans.

Tex., Lufkin—Glenn Hardware Co. plans 2 story brick warehouse, 1st St. $50,000. Architect not announced.

Tex., Ranger—Chestnut & Smith having plans prepared rebuilding gasoline plant destroyed by fire. $50,000. Private plans.

Tex., San Antonio—Galveston, Harrisburg & San Antonio Ry. of Southern Pacific Lines, Southern Pacific Depot, had plans prepared roundhouse, on Austin St., also 3 engine stalls, 3 engine pits, boiler washing plant and extending 6 engine stalls 47 ft. Probably by day labor. $80,000. H. M. Lull, 916 Southern Pacific Bldg., Houston, ch. engr.

Tex., Waco—June Mchy. Co., 1st and Franklin Sts., plans 3 story, concrete and brick warehouse, Franklin St. $75,000. Architect not announced.

Calif., Eureka—A. Frisch, 231 E St., plans 1 story, 50 x 110 ft. garage, brick or concrete, 4th and C Sts.

Calif., San Francisco—J. A. Nelson, Inc., 517 6th St., having plans prepared by H. A. Thomsen, Jr., 613 Sharon Bldg., 1 story plant, rein.-con., 10th and Howard Sts. $40,000.

Ont., Acton—Acton Machine Co. having plans prepared enlarging plant. $40,000. F. S. Blow, mgr.

BIDS DESIRED

Conn., New Britain—Nov. 27, by M. Zucker, 516 Main St., 3 story, 30 x 70 ft. warehouse, brick and steel, plain foundation, Main St. $50,000. G. Zunner, 172 High St., Hartford, archt. Noted Nov. 15.

Conn., Waterbury—Nov. 23, by P. Laskas, 1844 East Main St., 1 story and basement, 60 x 130 ft. garage, Meriden Rd. $40,000. F. L. Lauper, 16 Albion St., archt. Noted Nov. 8.

N. Y., Palmyra—Dec. 18, by R. K. Fuller, comr. Canals & Waterways, Albany, new power station at Lock 29, here. Contr. 193. Former bids rejected; adv. E. N.-R. Nov. 22.

Pa., Phila.—Nov. 24, by L. Rothschild, archt., 215 South Broad St., 6 story and basement, rein.-con. and brick warehouse, plain foundation, 6,000 sq.ft. floor space, 30th and Walnut St., for J. J. Greenberg, Morris Bldg. Noted Nov. 15.

Md., Baltimore—Nov. 28, by J. E. Sperry, archt., Calvert Bldg., 2 story, 139 x 152 ft. powerhouse, rein.-con. and brick, plain foundation, Wolfe St. between Monument and Madison Sts., for Johns Hopkins, Wolfe and Monument Sts. $150,000. H. F. Doeleman, 507 North Charles St., engr.

Tenn., Pulaski—Dec. 12, by Pulaski Development Co., 2 story and basement, brick factory. $50,000.

O., Cleveland—Paul Bros. Co., 601 Fidelity Mortgage Bldg., taking bids 1 story, 110 x 160 ft., brick, steel and concrete garage, 4320 Superior Ave. $150,000. J. F. Steffens, Fidelity Mortgage Bldg. archt.

Mich., Cadillac—See "Dams."

Mich., Crystal Falls—Nov. 28, by F. E. Parmelee & Son, archts., Iron Mountain, 1 story and basement, 50 x 100 ft. concrete and brick garage, plain foundation for Webb Garage Co., Crystal Falls. $40,000.

BIDS RECEIVED

Calif., San Francisco—Wobbers, Inc., 774 Market St., 2 story and basement, 45 x 160 ft., rein.-con. printing plant, Stevenson and 5th Sts., from K. E. Parker, Clunie Bldg., $103,003. Noted Aug. 2.

CONTRACTS AWARDED

Vt., East Arlington—See "Unclassified" under Vermont.

Conn., Middletown—Middletown Silk Co., 2 story, 60 x 230 ft. factory, brick and rein.-con., plain foundation, North St., to S. Mazzotta, 78 Spring St., $100,000. Noted Oct. 18.

Conn., New Britain—Stanley Wks., Grove Hill, 4 story, 80 x 200 ft. steel and brick factory, Whiting St., and 7 story, 40 x 60 ft., rein.-con. and brick factory, plain foundation, Elm St., to Aberthaw Constr. Co., 27 School St., Boston. Est. $70,000 and $150,000 respectively.

Conn., Torrington—Allen Candy & Fruit Co., 33 East Main St., 1 story and basement, 60 x 210 ft., brick and steel garage and salesroom, plain foundation, to F. W. Fuller, 79 Main St. Archts. est. $45,000.

Conn., Wallingford—Backes Sons Mfg. Co., 2 story, 30 x 130 ft. factory, brick and steel, plain foundation, Ward St., to Loucks & Clark Co., Ernest St. Archts. est. $40,000.

N. Y., Green Island (Troy P. O.)—J. A. Manning Paper Co., Inc., 68 George St., will build 2 story, 75 x 175 ft., brick and steel factory, plain foundation, George St., by day labor. $300,000. Private plans. Noted Oct. 25.

N. Y., Vischers Ferry—E. S. Walsh, comr. Canals & Waterways, Albany, superstructure of powerhouse and work incidental thereto, at dam, here. Contr. B-4, to McCann Building Co., 82 State St., Albany, $143,567. Engrs. est. $122,568. Noted Nov. 15.

Pa., Morrisville—D. C. Cook, 25 Fair St., Trenton, N. J., 50 x 75 ft. ice plant, Bridge St., here, to E. D. LaRue, 53 South Hermitage Ave., Trenton, N. J., $100,000.

Pa., Phila. — Moores & Dunford Inc., archts., 342 Madison Ave., New York City, 7 story and basement, 52 x 106 ft. rein.-con. and brick warehouse, plain foundation, 3935-3937 Germantown Ave., to Industrial Eng. Co., 30 Church St., New York City, for Interstate Warehouse & Storage Co., 919 North Front St. Noted Nov. 1.

Pa., Phila. — M. J. Powers, Broad and Cumberland Sts., sales and service garage, 2221-2225 North Broad St., to J. V. Warren Co., 132 South 17th St., $177,500.

N. J., Jersey City—Continental Can Co., 61 Bway., New York, brick, steel and rein.-con. factory addition, 16th St., here, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York. Archts. est. $500,000. Noted Sept. 6.

W. Va., Keyser—Potomac Pottery Co., 1 story, 35 x 126 ft. addition to plant, to T. P. Lilles, Keyser. Est. $40,000. Noted Nov. 13.

Tenn., Nashville—Turner, Day & Woolworth Handle Co., Inc., 1404 Adams St., 2 story factory, warehouse, storage, etc., Adams St., to H. P. Jacobs Constr. Co., Independent Life Bldg., $50,000. Noted Oct. 18.

Ky., Louisville—Standard Sanitary Mfg. Co., 6th and A Sts., 2 story, brick and steel addition to shop, to J. F. Russell & Co., M. E. T. Bldg., Louisville. Est. cost $50,000. Noted Oct. 25.

O., Cleveland—R. C. Patton and R. T. Hisey, 536 Engineers Bldg., 1 story, 45 x 280 ft., brick, steel and concrete garage, 1833 East 82nd St., to Mitzel-Shields Co., Rose Bldg. Archts. est. $80,000. Noted Oct. 4.

O., Elyria—Amer. Lace Co., 2 story, 40 x 120 ft., brick and steel factory, to J. Kaiser & Bro., Elyria, Archts. est. $60,000.

Mich., River Rouge — Ford Motor Co., Highland Park (Detroit P. O.), 1 story, 600 x 1,223 ft. and 2 story, 98 x 132 ft., rein.-con., brick and steel addition to foundry and motors building, plain foundation, to Bryant & Detwiler Co., 2336 Dime Bank Bldg., Detroit.

Wis., Ashland—J. M. Chapple & Co., 321 West 3rd St., 2 story, 64 x 100 ft., rein.-con., brick and steel newspaper plant, plain foundation, to C. Bloss, 901 4th St. Archts. est. $50,000.

Wis., Hurley—Norman Auto Co., will build 1 story, 95 x 100 ft. rein.-con., brick and steel garage, plain foundation, by day labor. B. E. Norman, pres. Est. $40,000. Private plans.

Wis., Kenosha—Central Fuel & Ice Co., 159 South Ridge St., will build 1 story, 57 x 100 ft., brick and concrete garage, plain foundation, South Ridge St., by day labor. $40,000. White & Co., Pub. Serv. Bldg., archts.

Wis., Waukesha—Manitowoc Church Furniture Co., 1214 Lincoln Ave., 1 story, 102 x 160 ft., concrete and tile addition, plain foundation, Lincoln Ave., to C. A. Dailey & Son, Waukesha. $50,000.

Wis., Waukesha—Thompson Malted Food Co., Riverside Dr., general contract 1 story, 52 x 100 ft., brick and concrete garage, plain foundation, to G. Ward, Waukesha, structural steel, to Worden-Allen, Port Washington Rd., Milwaukee, engrs. est. $40,000; 2 story and basement, 50 x 62 ft., brick and concrete addition to factory, plain foundation, to E. Steigerwald & Sons, 2303 Galena St., Milwaukee, engrs. est. $40,000.

Wash., Wenatchee—Puget Sound Power & Light Co., Stuart Bldg., Seattle, transformer station, here, to Stone & Webster Eng. Corp., 7th and Olive Sts., Seattle. $120,000.

Ia., Ft. Dodge—Ft. Dodge, Des Moines and Southern R.R., Boone, general contract car house and yard office, brick and concrete, here, to W. J. Zitterell Constr. Co., Webster City.

Mo., St. Louis — Niedringhaus Metal Wares Co., 5700 Natural Bridge Ave., 2 story, 100 x 200 ft., concrete and brick factory, 5719 Natural Bridge Ave., to C. W. Wilcox Constr. Co., 5302 Queens St. Archts. est. $45,000.

Ark., Fayetteville—Ozark White Lime Co. will build lime plant, 100,000 bbl. daily capacity, incl. crusher for burnt lime stone, separator, 5 ft. fan, two 80 ton storage bins, patent bagging machine, three 40 ft. elevators and 50 ft. dust stack. Work will be done by day labor. Private plans.

Calif., Fresno—E. Bradley, 1 story basement, brick garage, Stanislaus and L Sts., to Trewhitt-Shields Co., Rowell Bldg., $100,000 incl. equipment.

Calif., Los Angeles—C. A. Doody, 4 story, 150 x 150 ft., rein.-con. garage, 6th and Kenmore Sts., to Home Foundation Co., Mer. Natl. Bank Bldg. $280,000. Noted June 7.

Ont., Toronto — Chapmans Ltd., 330 Gerard St. E., general contract ice plant, Brown Ave., to Witchall & Son, 156 St. Helens Ave. Engrs. est. $75,000.

Industrial Works (Continued)

Ont., Toronto—Toronto Electric Comrs., Yonge and Shuter Sts., 1 story, 60 x 80 ft. electric substation, rein.-con., brick and steel, plain foundation, Danforth and Morton Aves., general contract to Jackson-Lewis Constr. Co., Ltd., Ryrie Bldg. Engrs. est. $300,000. Noted Oct. 11.

Buildings

PROPOSED WORK

Mass., Boston—Office—C. T. McFarland and A. W. Laurie, archts., 162 Newbury St., soon take bids 5 story and basement, about 70 x 100 ft., rein.-con., brick and limestone, wood-pile foundation, Marlboro St. and Commonwealth Ave., for Moreland Co., c/o R. M. Dobbins, 209 Washington St. About $200,000.

Conn., Darien—Laboratory—Cherry Lawn School having plans prepared by W. R. Steinmetz, Greely Bldg., Stamford, 2 story, 40 x 75 ft., brick and steel, plain foundation. $200,000.

Conn., Groton—School—First School Dist. plans 2 story, 100 x 150 ft., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

Conn., Hartford—Apartment—S. S. Tulin, 199 Retreat Ave., plans 4 story, brick, plain foundation, Washington St. $200,000. Engineer and architect not selected.

Conn., Hartford—School—Bd. Educ. plans school for mentally deficient children, Hurlburt St. $200,000. R. W. Huntington, chn. of ungraded school. Engineer and architect not selected.

Conn., Waterbury—Parish House, etc.—Second Congregational Church having preliminary plans prepared by R. H. Dana, 350 Madison Ave., New York City, parish house and altering present Sunday School, Holmes Ave. $150,000. W. Valentine, chn. building com.

Conn., Wethersfield—High School—Town plans high school. $200,000. G. R. Wells, 11 Church St., chn. of building com. Engineer and architect not selected.

N. Y., Aurora—Faculty—Wells College, soon takes bids brick, steel and stone, plain foundation. $150,000. E. E. Seelye, 101 Park Ave., New York City, engr. J. W. O'Connor, 162 East 37th St., New York City, archt.

N. Y., Bergen—High School—Bd. Educ. having plans prepared by Gordon & Kaelber, Sibley Bldg., Rochester, high school. $150,000. Will mature in spring. Noted Feb. 22.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York soon takes bids P. S. 63 brick, steel and stone, plain foundation, Williams St. near Liberty Ave., here. $610,000. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr. Noted Aug. 16.

N. Y., Hempstead—Theatre—M. Glynne, c/o Patchogue Theatre, Patchogue, plans brick, steel and stone, plain foundation, here, $450,000.

N. Y., Hollis (Jamaica P. O.)—School—St. Gerard Majella Parish, having plans prepared by R. J. Reilley, archt. and engr., 50 East 42nd St., New York, 2 story, brick, steel and stone, plain foundation. $200,000.

N. Y., Jamaica — Apartment — Loshen Bros., c/o Shampan & Shampan, archts. and engrs., 189 Montague St., Brooklyn, having plans prepared 6 story, 90 x 110 ft., brick, steel and stone, plain foundation, Shelton and Clinton Aves. $350,000.

N. Y., Mt. Vernon — Apartment — H. Bailer, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., New York, having plans prepared 4 story, brick, steel and stone, plain foundation, Lorraine Ave. $375,000.

N. Y., New York—Apartments—Goldner & Goldner, archts. and engrs., 47 West 42nd St., preparing plans two 6 story, brick, steel and stone, plain foundations, University Ave. $500,000 each. Owner's name withheld.

N. Y., New York—Apartment—I. Judis, 103 Park Ave., plans 15 story, 50 x 80 ft., brick, steel and stone, plain foundation. Amsterdam Ave. and 102nd St. Engineer and architect not selected.

N. Y., New York—Apartment—C. Kreymborg, archt. and engr., 2534 Marion Ave., preparing plans 5 story, 100 x 100 ft., brick steel and stone, plain foundation, Valentine Ave. $200,000. Owner's name withheld.

N. Y., New York—Apartment—D. S. Lang, archt. and engr., 110 West 34th St., preparing plans 6 story, brick, steel and stone, plain foundation, 164th St. and Ft. Washington Ave. $400,000. Owner's name withheld.

N. Y., New York—Apartment—Ninetieth St. and West End Ave. Corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., having plans prepared brick, steel and stone, plain foundation, 617 West End Ave. $350,000.

N. Y., New York — Apartment — N. C. Partos, c/o L. A. Abramson, archt. and engr., 46 West 46th St., having plans prepared 18 story, 100 x 100 ft., brick, steel and stone, plain foundation, 8th Ave. and 45th St. $2,000,000.

N. Y., New York—Apartment—Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., preparing plans 5 story, brick, steel and stone, plain foundation, Wadsworth Ave. $200,000. Owner's name withheld.

N. Y., New York—Apartment—Springsteen & Goldhammer, archts., and engrs., 32 Union Sq., preparing plans 175 x 370 ft., brick, steel and stone, plain foundation, 189th St. and Amsterdam Ave. $1,500,000. Owner's name withheld.

N. Y., New York—Apartment—Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., preparing plans 5 story, brick, steel and stone, plain foundation, 189th St. $275,000. Owner's name withheld.

N. Y., New York—Hotel—Three Hundred Two West 75th St. Corp., c/o R. T. Lyons, archt. and engr., 342 Madison Ave., soon takes bids 15 story, brick, steel and stone, plain foundation, 302 West 75th St. $750,000.

N. Y., New York — Loft — Shampan & Shampan, archts. and engrs., 189 Montague St., Brooklyn, preparing plans 17 story, 93 x 98 ft., brick, steel and stone, plain foundation, 252 West 37th St., here. $1,000,000. Owner's name withheld.

N. Y., New York—Loft—Two Hundred Fifty-Six West 38th St. Corp., c/o E. Roth, archt., 119 West 40th St., having plans prepared brick, steel and stone, plain foundation, West 38th St. $350,000. G. Aus, 244 Madison Ave., engr.

N. Y., New York—Office—MacMillan & Co., 64 5th Ave., soon takes bids brick, steel and stone, plain foundation, 5th Ave. and 12th St. $800,000. Carrere & Hastings, 52 Vanderbilt Ave., archts. and engrs.

N. Y., Schenectady—Bank and Office—Union Natl. Bank, State St., plans brick, steel and stone addition, plain foundation, State St. $300,000. Engineer and architect not selected.

N. Y., Yonkers — Apartment — C. H. Thompson, c/o DeRosa & Cavallera, 370 East 149th St., New York City, having plans prepared 6 story, brick, steel and stone, Cary St. $250,000.

N. Y., Yonkers—High School—Bd. Educ., soon lets contract 100 x 250 ft., brick, steel and stone, plain foundation, Tuckahoe Rd. $750,000. G. Aus, 244 Madison Ave., New York, engr. G. H. Chamberlain, 18 South Bway., archt.

New Jersey — Schools — Florence Twp. Com., Florence, plans 12 room addition to school in Florence, also 12 room addition to school in Roebling. $225,000. J. Young, 121 North 6th St., Phila., engr.

N. J., Glen Ridge—School—Bd. Educ. having plans prepared by Goodwillie & Moran, 56 West 45th St., New York City, 2 story, brick, steel and stone, plain foundation, High St. $150,000.

N. J., North Plainfield (Watchung P. O.)—High School—Bd. Educ. having plans prepared by J. T. Simpson, 31 Clinton St., Newark, 3 story, brick, steel and stone, plain foundation, Greenbrook Rd. $225,000.

Md., Baltimore—Apartment and Auto—W. H. Ramsley, pres. of Mount Royal Tire Co., 102 West Mount Royal Ave., having plans prepared by A. F. Amodio, Segal Bldg., Atlantic City, N. J., 8 story, 53 x 87 ft., brick, plain foundation, Mt. Royal and Maryland Aves. $250,000.

D. C., Wash.—Bank and Office—Federal Amer. Natl. Bank, 1315 F St., N. W., having preliminary plans prepared by Alfred C. Bossom, archt. and engr., 680 5th Ave., New York City, for brick, steel and stone. $1,000,000.

D. C., Wash.—High School—Dist. Comrs., 509 Dist. Bldg., plan Armstrong High School, brick and stone, 1st and N Sts., $500,000.

D. C., Wash.—Hospital—Hebrew Hospital for Aged, c/o H. A. Brandt, archt., McGill Bldg., having plans prepared for hospital. $150,000.

D. C., Wash.—Hotel—Harrington Hotel Co., 11th and E Sts., N. W., soon takes bids for addition. $250,000. A. B. Fitzsimons, Colorado Bldg., archt.

W. Va., Charleston — Theatre — Capitol Theatre plans 1 and 4 story and basement, 90 x 140 ft., Summers St. $400,000. Architect and engineer not announced.

W. Va., Charleston—Wholesale—J. E. Cobb Co. plans 7 story, 29 x 110 ft., wholesale building, will also add 2 stories to adjoining Cobb Bldg., Virginia St. $150,000. Engineer and architect not selected.

N. C., Greensboro—City Hall—City having plans prepared by H. Barton, Greensboro, 4 story, 80 x 100 ft. $350,000.

N. C., Wilmington—Court House, etc.—L. M. Boney, archt., Murchison Bldg., takes bids about Dec. 15, 4 story, 60 x 120 ft. addition, to contain offices, court room and jail, brick, tile and steel, wood pile foundation. $160,000. Noted Nov. 15.

Fla., Tampa—Mercantile—See "Industrial works."

Ala., Birmingham—Hospital and Home—Ku Klux Klan, c/o T. J. Shirley, Court House, purchased site and takes bids about Jan. 1, 4 story, 100 x 190 ft., brick, 6th Ave. North. $250,000. Engineer and architect not selected.

Tenn., Memphis—Hotel—Reinshagen Estate had plans prepared by H. J. Kramer, Goodwin Institute, 7 story, rein.-con., Poplar Ave. and Main St. $225,000.

Tenn., Nashville—City Hall and Market—City having plans prepared by Marr & Holman, archts., Stahlman Bldg., 3 story, on Public Sq. $800,000. Noted Nov. 15.

Ky., Louisville—Home—Methodist Episcopal Church Order, South, 812 5th St., plans widows and orphans home. $250,000 to $300,000. Architect and engineer not selected.

Ky., Louisville — Hospital — Evangelical Hospital Assn., c/o Nevin, Wischmeyer & Morgan, archts., Starks Bldg., plans new hospital. $200,000.

Ky., Louisville—Office—Commonwealth Life Insurance Co., 106-110 South 5th St., plans 5 story, 82 x 110 ft., brick and stone, 110 South 5th St. $200,000. D. X. Murphy & Bro., Louisville Trust Bldg., archts.

O., Akron—City Hall—Good & Wagner, archts. 209½ Water St., completing plans and takes bids after Jan. 1, 10 story, 94 x 102 ft., concrete, brick and steel, South High St. $900,000. Noted Dec. 7.

O., Cincinnati—Conservatory—Cincinnati Conservatory of Music, Highland Ave. and Oak, Mt. Auburn St., had plans prepared by W. B. Tuthill, archts. and engrs., 185 Madison Ave., New York City, 6 buildings. $2,000,000.

O., Cleveland—Apartment—Ancaster Co., c/o J. H. Drummond, 7500 Euclid Ave., plans 6 story, brick, 2036 East 77th St. $250,000. Engineer and architect not selected.

O., Cleveland — Apartment — Stotter-Haber Co., Leader News Bldg., plans 3 story, brick, Cedar Rd. $200,000. Engineer and architect not selected.

O., Cleveland—Apartment—I. Weinberg, secy. Weinberg Furniture Co., 942 East 105th St., having plans prepared by M. Altschuld, 5116 Woodland Ave., 3 story and basement, 75 x 104 ft., brick, Lakeview Rd. $150,000.

O., Cleveland—Bank and Office—Washington Savings Bank, 6969 Bway., plans 2 story, 80 x 150 ft., brick, steel and concrete, East 71st St. and Bway. $150,000. W. J. Nowak, chn. Bd. Dirs. Engineer and architect not selected.

O., Cleveland—Nurses Home, Laboratory and Dispensary — Mt. Sinai Hospital of Cleveland, 1800 East 105th St., having plans prepared by C. R. Greco, Guardian Bldg., brick, steel and concrete, East 105th St. and Ansel Rd. $1,000,000. F. E. Champion, dir.

O., Cleveland — Orphanage — Cleveland Christian Home for Children, 11401 Lorain Ave., having plans prepared by J. H. MacDowell, Bulkley Bldg., 2 and 3 story, brick, steel and concrete, Lorain Ave. $250,000.

O., Columbus—Office—Columbian Building & Loan Co., 22 East Gay St., had plans prepared by F. L. Packard, New Hayden Bldg., 4 story and basement (ultimately 8 story), 97 x 187 ft, rein.-con., stone and steel. $300,000.

Ind., Evansville — Housing — Evansville Planing Mill Co. plans 150 houses on 20 acre site, Stringtown Rd. $150,000. G. A. Gore, pres.

Mich., Detroit—Hotel—A. V. Lee, c/o L. Kamper, archt., Kamper Bldg., 7 story and basement, 60 x 100 ft. rein.-con., brick and steel, plain foundation, Sproat and Park Sts. $225,000.

Mich., Marquette—Church—First Presbyterian Congregation plans 2 story, brick and stone, plain foundation. $150,000. Architect not selected.

Mich., Pontiac—Apartment—Varney & Varney, archts., 1422 Washington Blvd., Detroit, preparing plans 3 story and basement, 60 x 160 ft. brick and steel, plain foundation. $225,000. Owner's name withheld.

Ill., Chicago—Apartment—H. Dalsey, archt., 2321 West North St., plans 3 story, 100 x 160 ft., fireproof, Greenview Ave. near Montrose St. $300,000. Owner's name withheld.

Ill., Chicago—Apartment—Lindstrom & Johnson c/o R. C. Ostergren, archt., 155 North Clark St., plan fireproof anartment, Woodlawn Ave. near 47th St. $750,000.

Ill., Chicago—Bank and Office—Kimball Trust and Savings Bank, 3538 Fullerton

Buildings (Continued)

St., plans 2 story, 79 x 135 ft. fireproof, Fullerton St. and North Central Park. $175,000. W. G. Uffendell, 39 South State St., archts.

Ill., Chicago—Bank, Store and Office—Marquette Park State Bank, c/o K. M. Vitzthum & Co., 605 North Michigan Ave., plans 3 story, 75 x 110 ft., fireproof, Western and 63rd Sts. $200,000.

Ill., Pekin—School—Bd. Educ., Arcade Bldg., plans to construct Douglas School, 2 story and basement, brick and rein.-con. $150,000. L. R. Kinsey, pres. Architect not selected.

Wis., Appleton—High Schools—Bd. Educ. rejected bids two 2 story and basement, brick, tile and concrete, plain foundations. Total cost $300,000. Will readvertise. Perkins, Fellows & Hamilton, 814 Tower Court, Chicago, archts. Noted Oct. 25.

Wis., Milwaukee—Apartments—J. Hunholz, 2310 Vliet St., had plans prepared by Dick & Bauer, 811 State St., two 8 story and basement, 50 x 100 ft., brick and concrete, plain foundations, Mason St. Noted Oct. 18.

Wis., Milwaukee—Store—C. Niss & Sons, 697 3rd St., having plans prepared by M. Tullgren & Sons, 425 East Water St., 5 story and basement, 72 x 150 ft., brick and concrete, plain foundation. $200,000.

Wis., Powers Lake—Hotel—Powers Lake Hotel having plans prepared by C. D. Faulkner, 140 South Dearborn St., Chicago, and takes bids in spring, 2 story, brick, plain foundation. $150,000.

Wis., Waukesha—Hotel Silurian, c/o F. J. Strong, rejected bids 3 story and basement, concrete and tile, plain foundation. $300,000. New bids later. M. Tullgren & Sons, 425 East Water St., Milwaukee, archts. Noted Sept. 27.

Ia., Burlington — High School — Voted $275,000 bonds for addition to high school and $75,000 bonds for gymnasium. Address Bd. Educ., c/o D. S. Cooper, secy. Noted Feb. 15.

Ia., Council Bluffs—Office—Park Building Corp., Rogers Blk., plans 5 story and basement, 100 x 200 ft., rein.-con., brick, tile and stone, Pearl St. and Willow Ave. $200,000.

Ia., Davenport — Dormitory — Augustana College, 7th Ave. and 38th St., plans rein.-con., brick tile and stone, probably 3 story and basement on campus. $150,00. Architects not announced.

Kan., Dodge City—Hospital—Sisters of St. Joseph, soon take bids 3 story and basement, rein.-con., brick, steel and hollow tile. $150,000. Lorentz Schmidt & Co., 516 4th Natl. Bank Bldg., Wichita, archts. Noted Nov. 8.

Kan., St. Francis—Court House—Cheyenne Co. rejected bids 3 story, 60 x 110 ft., rein.-con., brick and stone. $150,000. Will take new bids in about 2 weeks. T. W. Williamson Co., 312 Central Natl. Bank, Topeka, archts.

Wis., Racine—Hospital—Florence Nightingale Society, 1340 College Ave., receiving competitive sketches 3 story and basement, brick and concrete, plain foundation. $250,000.

Wis., Racine—School—Bd. Educ. plans 2 story and basement, brick, tile and concrete, plain foundation. $150,000. A. H. Schafer, secy. Architect not selected.

Mo., Hannibal—School—Bd. Educ. takes bids about Jan. 1, 2 story, 125 x 140 ft., rein.-con., brick and stone, 6th St. and North Ave. $150,000. M. S. Martin, Holmes Bldg., archt.

Mo., Koch—Administration and Kitchen—City of St. Louis takes bids about Jan. 1, 3 story, rein.-con., brick and stone, for Robert Koch Hospital, here. $225,000. E. E. Christopher, 301 City Hall, St. Louis, archt. H. Updike, 301 City Hall, St. Louis, engr.

Mo., Webster Groves—Seminary—T. P. Barnett Co., archts., Arcade Bldg., St. Louis, takes bids about Dec. 10, 2 story and basement, administration building, dormitories, dining hall, gymnasium, boiler house, etc., rein.-con. and brick, plain foundations, Lockwood St., for Eden Seminary, 6700 Easton Ave. $1,000,000. Will build chapel and library buildings later. Noted Aug. 2.

Ark., Little Rock—Infirmary—St. Vincent Catholic Infirmary, 1000 High St., had plans prepared by Sanders & Ginnochio, Hall Bldg., 2 story and basement, rein.-con., 9th and Bishop Sts. $150,000.

Okla., Muskogee—Hall and Auditorium—Masonic Order plans 4 story rein.-con., Cherokee St. $150,000. F. T. Ward, Masonic Bldg., secy. Will select architect Dec. 1. Noted March 8.

Colo., Ft. Morgan—High School—Election Dec. 4, to vote on $300,000 bonds, 3 story, 120 x 300 ft., rein.-con. and brick. W. N. Bowman, Central Savings Bank Bldg., Denver, archt.

Nev., Reno—Church—Trinity Episcopal Church having preliminary plans prepared by C. Sumner, 57 Post St., San Francisco, church, Rainbow and Court Sts., here, $150,000.

Wash., Spokane—High School—School Bd. plans election in March to vote on $425,000 bonds for new high school.

Ore., Eugene — Hotel — Eugene Hotel Assn., c/o H. Hutton, Eugene, plans 7 story, 100 x 160 ft. rein.-con., 9th and Olive Sts. $225,000.

Ore., Portland—Apartment—L. H. Hoffman, 707 Gasco Bldg., having plans prepared two 4 story, one 85 x 90 ft. and other 85 x 140 ft., frame and stucco, 20th and Lovejoy Sts. $175,000. Private plans.

Calif., Covina — High School — Covina High School Dist. having plans prepared by Train & Williams, Western Mutual Bldg., Los Angeles, rein.-con. additions to auditorium, science hall, cafeteria, etc. $150,000. Noted Nov. 1.

Calif., Los Angeles—Hotel—Metropolitan Hotel Co., c/o L. L. Smith, archt., Byrne Bldg., having plans prepared, approximately 12 story, 95 x 150 ft., rein.-con. South Main St.

Calif., Los Angeles—Lodge Hall—Lodge of Odd Fellows, 2705 North Bway., having plans prepared by Morgan, Walls & Clement, Van Nuys Bldg., 3 story and basement, 100 x 170 ft., brick and steel, Washington and Oak Sts.

Calif., Richmond — Hospital — Defeated $150,000 bonds for hospital, and $50,000 for swimming pool. Noted Oct. 11.

Calif., San Francisco — Church — Beezer Bros., archts., 1915 Steiner St., soon take bids fireproof church, Bush and Steiner Sts., for St. Dominic's Congregation, Bush and Steiner Sts.

Calif., San Francisco — Club — Olympic Club, Olympic Club Bldg., having plans prepared by Bakewell & Brown, 251 Kearney St., 2 story, frame and stucco, Lakeside Golf Links. $200,000.

Calif., San Francisco—School—City and San Francisco Co. having plans prepared by Miller & Pflueger, archts., Lick Bldg., 2 story and basement, rein.-con., 22nd and 23rd Aves., Clement and California Sts. $300,000.

Ont., Hamilton — University — McMaster University, Bloor St. W., Toronto, plans 2 and 3 story and basement, rein.-con., brick and steel, plain foundation. $500,000. Engineer and architect not selected.

Ont., London—School—Bd. Educ. takes bids after Nov. 24, 2 story, brick, Empress Ave. $185,000. L. E. Carrothers, c/o Bd. Educ., archt.

Ont., Port Arthur — Jail — Provincial Government, Parliament Bldgs., Toronto, soon takes bids 2 story and basement, rein.-con., brick and steel, plain foundation. $200,000. F. R. Heakes, provincial archt.

Ont., Toronto—Church—Eglington Ave. Methodist Church, Eglington Ave., plans 1 story and basement, 60 x 100 ft. rein.-con. and brick, plain foundation, Eglington Ave. $160,000. Engineer and architect not selected.

Ont., Toronto—Hospital—Home for Incurable Children, 152 Bloor St. E., plans 3 story and basement, rein.-con., brick and steel, plain foundation, Dunn Ave., $250,000. Engineer and architect not selected.

BIDS DESIRED

Mass., Hyde Park (Boston, P. O.)—Police Station—Dec. 4, by F. J. Kneeland, supt. Pub. Wks., Room 802, City Hall, Boston, 2 story and basement, 79 x 140 ft., brick, granite and Indiana limestone, wood pile foundation, Hyde Park Ave., here. $200,000. Maginnis & Walsh, 100 Boylston St., Boston, archts. Noted Aug. 16.

Conn., Hartford — High School—Dec. 4 (extended date), by Bd. Contract & Supply, 3 story, brick and steel, plain foundation, Maple St. $1,200,000. E. T. Wiley, 75 Pratt St., archt. Noted Nov. 8.

Conn., Meriden — Hotel — Matis Hotel, Pratt St., taking bids and opens same about Nov. 24, 4 story, 50 x 90 ft., brick and steel, plain foundation, Pratt St. $150,000. D. A. Guerriero, 1029 Main St., Hartford, archt. Noted Oct. 4.

N. Y., Brooklyn—High School—Dec. 10, by Superintendent Bd. Educ., 500 Park Ave., New York, James Madison High School, brick, steel and stone, plain foundation, Bedford Ave., from Ave. P to Quentin Rd., here. $3,000,000. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr. Noted Sept. 20.

N. Y., New York—Apartment—Lanzner & Baer, 152 West 42nd St., will build 182 x 189 ft., brick, steel and stone, plain foundation, Wadsworth Terrace. Work will be done by separate contracts under supervision of owners.

N. Y., New York—School—Dec. 10, by Superintendent Bd. Educ., 500 Park Ave., P. S. 71, Roberts and Jarvis Aves. Former contract rescinded. Plans revised for larger building. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr. Noted June 21.

N. Y., Richmond Hill (branch of Jamaica)—School—Dec. 10, by Superintendent Bd. Educ., 500 Park Ave., New York, P. S. 121, 109th Ave. between 126th and 127th Sts., here. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

Pa., Bethlehem—Schools—Nov. 28, by Secretary School Bd., constructing Edgeboro Elementary School, 2 story and basement, 94 x 167 ft. brick, plain foundation, Jennings and Walters Sts.; 2 story and basement, 62 x 154 ft. rein.-con. and brick, plain foundation, East 4th St.; Rosemont Elementary School, 2 story and basement, 63 x 117 ft. rein.-con. and brick, plain foundation, Penna. Ave., Golpp and Union Sts. Ritter & Shay, North Amer. Bldg., Phila., archts.

Md., Baltimore—School—Nov. 26, by L. H. Fowler, 347 North Charles St., 2 story, 110 x 160 ft., concrete and brick, plain foundation, University Circle and 40th St., for Calvert Primary School, 10 West Chase St. $150,000. Noted July 19.

Md., Baltimore—School of Hygiene—Dec. 5, by Archer & Allen, archts, 1 East Lexington St., 8 story, brick and steel, plain foundation, Monument and Wolfe Sts., for Johns Hopkins Hospital, Wolfe and Monument Sts. $1,000,000. Noted Aug. 9.

W. Va., Huntington—Court House—Nov. 26, by Comrs. Cabell Co., 3 story, 65 x 107 ft., rein.-con. and brick addition. $150,000. S. L. and R. L. Day, Huntington, archts. Noted July 19.

W. Va., Williamson—Bank—Jan. 1, by Bank of Commerce, Bluefield, 5 story, about 60 x 110 ft. brick, limestone and steel, here. $175,000. Warne, Tucker & Patteson, Charleston, archts.

Fla., Clearwater—School—Nov. 27, by Superintendent Pub. Instruction Pinellas Co.; for school. $150,000. M. L. Elliot, Citizens Bank Bldg., Tampa, archt.

Tenn., Lebanon—Schools—Nov. 26, by Bd. Educ., 2 brick and concrete school buildings. $150,000. C. K. Colley, 4th and 1st Bldg., Nashville, archt. Noted Sept. 27.

Tenn., Memphis—Hotel—W. W. Ahlschlager, archt., 65 East Huron St., Chicago, taking bids 12 story, 170 x 324 ft., rein.-con., brick and steel, Union Ave., 2nd and 3rd Sts., here. $3,000,000. Owner's name withheld.

O., Cleveland Heights (Warrensville, P. O.)—Apartment—H. Sobul and H. Elder, 438 Guardian Bldg., Cleveland, taking bids 3 story and basement, 51 x 132 ft., brick, Cedar Rd., here. $150,000. M. Weis, Union Bldg., Cleveland, archt.

O., East Cleveland (Cleveland P. O.)—Apartment—H. Shifrin, 1229 East 124th St., Cleveland, taking bids 3 story and basement, 52 x 183 ft., brick, 1835 Noble Rd., here. $200,000. Braverman & Havermaet, Ulmer Bldg., Cleveland, archts.

Mich., Grand Rapids—School—Nov. 27, by G. A. Davis, pres. Bd. Educ., City Hall, 2 story and basement, rein.-con., brick and steel addition to Oakdale School, plain foundation. $150,000. Osgood & Osgood, 2-4 Monroe Ave., archt.

Ill., Chicago—Apartment—B. L. Coyte, 7419 Wentworth St., receiving bids 3 story, 110 x 143 ft., fireproof, 76th and Wentworth Sts. $165,000. E. G. McClellan, 7441 Cottage Grove Ave., archt.

Ill., Chicago — Apartment — H. Dalsey, archt., 2321 West North Ave., receiving bids 3 story and basement, fireproof, Bosworth St. near Howard St., $225,000. Owner's name withheld.

Ill., Chicago—Apartment—J. S. Smith, 7620 Clyde Ave., receiving bids 3 story and basement, 125 x 150 ft., fireproof, 67th and Clyde Sts. $325,000. J. Hocke, 7602 Chappel Ave., archt. Noted Oct. 25.

Ill., Chicago—Bank—K. M. Vitzthum & Co., archts., 605 North Michigan Ave., receiving bids 2 story, 83 x 125 ft., fireproof, Ashland St. near 63rd St., for Ashland-Sixty-Third State Bank, Ashland and 63rd Sts. $250,000.

Ill., Forest Park—Bank—Laurence, Rippel & Ratcliffe, archts., 123 West Madison St., Chicago, receiving bids 2 story, 59 x 150 ft., fireproof, Madison and Hannah Sts., here, for Harlem State Savings Bank c/o architects. $250,000.

Ill., Peoria—Armory—Nov. 27, by E. A. Martin, archt., 304 South Wabash Ave., Chicago, 1 and 2 story, rein.-con., brick and stone, Adams St., here, for Dept. Pub. Wks. and Buildings, Springfield. Noted Oct. 11.

Buildings (Continued)

Ia., Cedar Falls—Dormitory—Dec. 11 by State Bd. Educ., Des Moines 4 story and basement addition, rein-con., brick, tile and stone, at Iowa State Teachers College. College and 23rd Sts., here. $150,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, archts.

Minn., Minneapolis—School—Nov. 26, by Bd. Educ., 1st floor and basement of 1 story, 150 x 300 ft., rein.-con., brick and tile, Mississippi River Blvd. $200,000. Bureau of Bldgs., Bd. Educ., 245 9th Ave. N., archts. Noted Sept. 13.

Minn., Slayton—School—Dec. 4, by Bd. Educ., 2 story and basement, rein.con., stone, brick and tile. $150,000. Lang, Raugland & Lewis, 412 Essex Bldg., Minneapolis, archts. Noted May 10.

Minn., St. Paul—Gymnasium—Nov. 30, by Macalester College, Grand and Snelling Aves., 2 story and basement, 92 x 220 ft., rein.-con. and brick. $150,000. W. M. Ingeman, 637 Endicott Bldg., St. Paul, and E. D. Litchfield & Rogers, 477 5th Ave., New York, archts.

Neb., Falls City—Court House—Dec. 19, by W. F. Gernandt, archt., 1408 North 34th St., Omaha, 2 story and basement, 66 x 100 ft. rein.-con., brick and steel, for Richardson Co. $200,000. Noted Nov. 8.

Neb., South Sioux City—High School—Nov. 27, to vote on $175,000 bonds for high school. Beuttler & Arnold, 405 Grain Exch. Bldg., Sioux City, archts.

Ark., Little Rock—Bank—Dec. 5, by St. Louis Federal Reserve Bank, Bway. and Pine St., St. Louis, Mo., 2 story and basement, stone, rein.-con. and steel, 3rd and Louisiana Sts., here. $350,000. Thompson & Harding, Southern Trust Bldg., archts.

Ark., Litttle Rock—Church—Nov. 25, by Sanders & Ginnocchio, archts., Hall Bldg., church, Sunday school and auditorium, brick, rein.-con. and stone, for Second Presbyterian Church. $200,000.

Tex., Commerce—Educational—Dec. 1, by M. O. Flowers, chn. Bd. Regents, at Adolphus Hotel, Dallas, 3 story, rein.-con., terra cotta and brick, incl. auditorium, 2,200 seating capacity, class rooms and gymnasium, at East Texas State Teachers College, here. $275,000. R. O. Jameson, Amer. Exch. Bank Bldg., Dallas, engr. C. H. Page & Bros., Austin Natl. Bank Bldg., Austin, archts.

Tex., Dallas—High School—Nov. 27, by Bd. Educ., 3 story and basement, concrete, brick and stone, Oak Cliff. $500,000. De Witt & Lemmon, Southwestern Life Bldg., archts.

Tex., Fort Worth—Sanitarium—Dec. 10, by C. H. Harris, 1028 5th Ave., 3 story, brick and concrete, Rosedale St. $250,000. O. H. Atkinson, 806 Taylor Ave., archt. Noted Nov. 8.

Okla., Oklahoma City—Office—Dec. 1, by Layton, Smith & Forsyth, Braniff Bldg., 12 story, 75 x 140 ft., stone, concrete pile foundation, 1st St., for Doctors Building Assn., Oklahoma City. $800,000. Noted Sept. 13.

Wash., Tacoma — Hotel — Dec. 7, by Citizens Hotel Corp., Inc., 610 Tacoma Bldg., 12 story, rein.-con., 9th St. and Bway. $1,500,000. W. L. Stoddart, 50 East 41st St., New York City, archt. This corrects report in Nov. 15 issue.

Wash., Tacoma — School — Dec. 1, by School Bd., 2 story, 260 x 360 ft., rein.-con. and brick, Campus of College of Puget Sound. $425,000. R. E. Borbek, Puget Sound Natl. Bank Bldg., archt. Noted Mar. 8.

Calif., Los Angeles—Psychopathic Ward—Dec. 3, by Supervs. Los Angeles Co., 1 story, 38 x 276 ft. main building, with two 27 x 216 ft. wings, concrete and brick.

Calif., Los Angeles—Store and Loft—Walker & Eisen, archts., Pacific Finance Bldg., receiving bids 12 story and basement, 50 x 150 ft., rein.-con., Bway., for Wurlitzer Co., 605 West 7th St. Noted Oct. 4.

Calif., San Francisco—Orphanage—Bliss & Faville, Balboa Bldg., taking bids 3 story administration building, six 2 story concrete and stucco cottages, and 1 story rein.-con. laundry and power house, on 10 acre site bounded by 28th and 30th Aves., Vicente and Wawona Sts., for San Francisco Protestant Orphan Asylum. $350,000.

BIDS RECEIVED

Calif., Oakland—School—St. Elizabeth's Parish, 1532 34th Ave., 2 story, rein.-con., from Larsen-Siegrist Co., Claus Spreckels Bldg., San Francisco, $251,777. Noted July 26.

CONTRACTS AWARDED

Mass., Boston — School — Schcolhouse Comrs., 2 story and basement, 70 x 150 ft., brick, wood pile foundation, Oakland and Faneuil Sts., to C. & R. Constr. Co., 3 Tremont Row, $204,167.

Conn., Glenbrook — Apartment — C. E. Philips, 3 story, 122 x 122 ft., brick, plain foundation, Holmes St. and Maple Ave., to S. Bennett, Glenbrook. Archts. est. $150,000. Noted Nov. 8.

Conn., Hartford — Apartment — N. Caravillo Co., 210 Farmington Ave., will build 3 story, 80 x 125 ft., brick and steel, plain foundation, Willard St., by day labor. $150,000. Dunkelberger & Gelman, 721 Main St., archts. Noted Nov. 8.

Conn., Hartford—Apartment—M. F. Morrissey, 26 Dennison St., will build two 3 story, 40 x 100 ft., brick, plain foundations, Vine St., by day labor. $200,000. Noted Nov. 15.

Conn., Hartford—Apartment—J. P. Nellson, 494 New Britain Ave., 3 story, 60 x 120 ft., brick, plain foundation, Buckingham St., to H. Thompson, 120 Richard St., West Hartford (Hartford, P. O.). Archts. est. $150,000. Noted Sept. 27.

Conn., Simsbury — Library — Simsbury Library Assn., 2 story and basement, brick and stone, plain foundation, to W. M. Ketchin, Tariffville. Archts. est. $150,000. Noted Oct. 18.

Conn., Waterbury—Church and Parish House—M. O. Owen, pastor Bunker Hill Congregational Church, 22 Marion St., brick and steel, plain foundation, to Clark Constr. Co., 168 Grand St. Archts. est. $200,000. Noted Oct. 11.

N. Y., Brooklyn—Apartment—A. Caplan, c/o Cohn Bros., archts. and engrs., 361 Stone Ave., will build 4 story brick, steel and stone, plain foundation, Eastern Parkway near Rochester Ave., by day labor. $300,000.

N. Y., Brooklyn—Apartment—S. Kushner, c/o Cohn Bros., archts. and engrs., 361 Stone Ave., will build 2 story, brick, steel and stone, plain foundation, Clinton Ave., by day labor. $300,000.

N. Y., Brooklyn—High School—Bd. Educ., 500 Park Ave., New York, addition to Erasmus High School, Bedford Ave., here, to E. Diebitsch, Inc., 383 Madison Ave., New York, $1,070,000. Noted Oct. 25.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, P. S. 210, 5 story, 170 x 193 ft., brick, limestone and terra cotta Rochester Ave. from Park Pl. to Prospect Pl., here, to Turner Constr. Co., 244 Madison Ave., New York, under direction of W. H. Gompert, archt., Flatbush Ave. extension and Concord St. This corrects report in Nov. 15 issue.

N. Y., Elmira—Store—Iszard Dept. Store, Baldwin and Water Sts., 4 story, brick and concrete, Main St., to F. H. Johnston, West Church St., $310,000. Noted May 24.

N. Y., New York—Apartment—Aurora Constr. Co., c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., will build 5 story, brick, steel and stone, plain foundation, 188th St. and Audubon Ave., by day labor. $300,000.

N. Y., New York—Apartment—Shirbar Realty Corp., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, brick, steel and stone, plain foundation, 594 Ft. Washington Ave., by day labor. $250,000.

N. Y., New York—Office—Brooff Constr. Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 12 story, brick, steel and stone, plain foundation, 38th St. between 5th and 6th Aves., by day labor. $600,000.

Va., Winchester—High School—Bd. Educ., 3 story, terra cotta and brick plain foundation, to Central States Constr. Co., Huntington, W. Va., $250,000.

W. Va., Athens — Physical Education — Concord State College, 4 story, brick and stone, with concrete swimming pool, to H. A. Lucas, Bluefield. Est. $150,000. Noted Nov. 8.

W. Va., Clarksburg—Hospital—Ku Klux Klan, 3 story, 80 x 110 ft., to Amer. Constr. Co., Clarksburg. Est. $150,000.

W. Va., Welch—High School—Bd. Educ., 4 story, 100 x 136 ft., to Foreman & Putnam, Marietta, O. $170,000.

Fla., Miami Beach—Hotel—A. Iba and D. C. Cochmer, 6 story, 50 x 130 ft., rein.-con., caisson foundation, Ocean Dr., to C. D. Cochran, 725 3rd St., cost plus percentage basis. Archts. est. $200,000.

O., Springfield — School — Bd. Educ., 2 story and basement, 71 x 163 ft., rein.-con. and brick, to T. A. Graham, 1519 Clifton Ave., $142,821. Noted Nov. 8.

O., Toledo—Commercial—Ramson & Randolph Co., 3 story and basement, 80 x 190 ft., rein.-con., brick and steel, plain and concrete pile foundation, Superior and Chestnut Sts., to J. H. Berkebile & Sons, Toledo, $200,000.

Ill., Peoria—Cathedral—Peoria Consistory Scottish Rite Masons, 1005 Central National Bldg., 4 story, 75 x 170 ft., brick, concrete, stone, marble and terra cotta, Jackson St., to V. Jost & Sons, Lehman Bldg. Archts. est. $300,000.

Mo., Kansas City — High School — Bd. Educ., rein.-con., brick and stone addition to high school, Independence and Arlington Aves., to Patti-Moore Constr. Co., 37th and Bellefontaine Sts., $212,000.

Mo., St. Louis—Office—L. E. Anderson & Co., 310 North 8th St., 3 story, 41 x 69 ft., rein.-con., granite, steel and brick, 711 St. Charles St., to J. G. Hercules, Jr., Wainwright Bldg. Archts. est. $150,000.

Mo., St. Louis—Primate House—Bd. Pub. Serv., 305 City Hall, general contract 110 x 129 ft., rein.-con., brick and stone, Forest Park, to J. Hill Constr. Co., Syndicate Trust Bldg., for Zoological Bd. Control, Forest Park. $146,380. Noted Nov. 15.

Mo., St. Louis—Store and Apartment—Dougherty-Sheehan, 721 Chestnut St., 3 story and basement, rein.-con., brick, stone and terra cotta, Clayton St., by day labor. $165,000. W. F. Sheehan, 6192 Westminister St., archt.

Ark., Little Rock—Hospital—Ozark Sanitarium, c/o W. V. Laws, pres., 4 story and basement, 40 x 100 ft., rein.-con. and brick, plain foundation, by day labor under supervision of R. A. Pottinger, 4321 Keystone Ave., Chicago. $200,000.

Wash., Seattle—Apartment—G. S. Hammond, 4 story and basement, 100 x 120 ft., brick, 2nd St. W. and Roy St., to H. Pederson, Alaska Bldg. Archts. est. $200,000.

Calif., Los Angeles—Apartment—G. W. Cowan et al., 14 story and basement, 140 x 200 ft., rein.-con. and brick, North Sycamore Ave. to Hennessy Bros. & Co., 810 South Wabash Ave., Chicago, $1,200,000. Noted Aug. 30.

Calif., San Francisco — Apartment — L. Blum, 180 Jessie St., will build 6 story and basement, concrete, Sutter St. near Hyde St., by day labor. $155,000. C. O. Clausen, Hearst Bldg., archt. Noted Aug. 23.

Calif., Santa Rosa—High School—Trustees High School Dist., rein.-con. and brick, to Hannah Bros., 142 Sansome St., San Francisco, $345,946. Noted Nov. 15.

Federal Government Work

PROPOSED WORK

Me., Bar Harbor — Garage, etc. — Spec. 4900—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids garage and repairs to administration building at Naval Radio Station, Otter Cliffs, here. Noted Oct. 18.

BIDS DESIRED

Md., Annapolis—Shore Protection-Spec. 4917—Nov. 28 by Bureau Yards & Docks, Navy Dept., Wash., D. C., shore protection at Tower 5, here. Noted Oct. 4.

D. C., Wash.—Bungalows—Dec. 19 by Dept. of Interior, construction complete, 7 bungalows at St. Elizabeth's Hospital. F. M. Goodwin, asst. secy.

N. C., Wilmington—Dredging—Dec. 19, at office U. S. Engineer, dredging in Inland Waterway from Beaufort to Jacksonville; adv. E. N.-R. Nov. 22.

Tenn., Memphis—Towboat—Dec. 19 at office First and Second Mississippi River Dists., 1006 McCall Bldg., stern-wheel steel towboat; adv. E. N.-R. Nov. 22.

Ky., Camp Knox—Well—Nov. 30 by Constructing Quartermaster, constructing deep well.

Ky., Louisville—Operating Machinery—Dec. 15 at office U. S. Engineer, P. O. Box 72, operating machinery for Locks and Dams 44 and 45, Ohio River; adv. E. N.-R. Nov. 22.

Ind., South Bend—Post Office—Dec. 7 by Treas. Dept., Wash., D. C., additions to U. S. Post Office, here, J. A. Wetmore, acting superv. archt.; adv. Nov. 22.

Ill., Great Lakes—Rebuilding Laundry—Spec. 4918—Nov. 21 (extended date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., rebuilding laundry, here. Noted Nov. 1.

Ill., Great Lakes—Coal Bunkers, etc.—Spec. 4929—Nov. 28 by Bureau Yards & Docks, Navy Dept., Wash., D. C., coal bunkers and railroad siding, here.

Wis., Ripon—Post Office—Dec. 7 (extended date) by Treas. Dept., Wash., D. C., construction, complete incl. mechanical equipment, U. S. Post Office, here. J. A. Wetmore, acting superv. archt. Noted Nov. 1. Adv. E. N.-R. Nov. 22.

Okla., Oklahoma City—Well—Dec. 7 by Treas. Dept., Wash., D. C., deep well, here. J. A. Wetmore, acting superv. archt.

Calif., Livermore—Hospital—Dec. 22 at office U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., construction complete of infirmary, administration, mess and kitchen building, recreation building, nurses quarters, attendants quarters, garage,

Federal Government Work (Continued)

storehouse, etc., mechanical equipment and outside service lines except grading and walks, at U. S. Veterans Hospital, here, F. T. Hines, dir.; adv. E. N.-R. Nov. 22. Noted Sept. 20.

BIDS RECEIVED

Ia., Carroll—Post Office—Treas. Dept., Wash., D. C., 1 story, 62 x 64 ft., brick and tile, here, from J. S. Gebuhr, Council Bluffs, $43,600. Noted Oct. 18.

California—Road—C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 9 Main St., San Francisco, clearing, grading and crushed rock surfacing 15.5 mi. Murphy-Big Trees National Forest Highway Calaveras Co., 100 acres clearing, 133,400 cu.yd. excav., 18,000 cu.yd. crushed rock surfacing, etc., from C. E. Crowley, Pacific Electric Bldg., Los Angeles, furnishing explosives $153,267, engrs. est. $152,789. Government furnishing explosives $146,740, engrs. est. $139,746. Noted Nov. 1.

H. T., Pearl Harbor—Storehouse—Spec. 4859—Bureau Yards & Docks, Navy Dept., Wash., D. C., 1 story, 120 x 480 ft., steel and concrete storehouse, at Naval Operating Base, here, (1) work complete, from Davison & Nicolsen, 324 West Lafayette St., Stockton, Calif., (1) $170,374 telegraphic modification deduct $3,000 from Item (1), (2) $20, (3) $6,100, (4) $140, (5) $1,350, (6) $50. Noted Sept. 27.

CONTRACTS AWARDED

N. Y., Port Chester—Dredging, etc.—U. S. Engineer, Army Bldg., 39 Whitehall Bldg., New York, dredging and rock removal in Harbor, here, to Bridgeport Dredge and Dock Co., 1024 Main St., Bridgeport, Conn., $123,375. Noted Sept. 27.

Tenn., Nashville—Steel Hull—U. S. Engineer, 1 steel snagboat hull, etc., to Dravo Contg. Co., Diamond Bldg., Pittsburgh, Pa., $45,400.

Ind., Indiana Harbor—Breakwater—U. S. Engineer, 537 South Dearborn St., Chicago, breakwater, here, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, $184,860. Noted Oct. 18.

Wis., Milwaukee—Steel Barge, etc.—U. S. Engineer, constructing steel barge and installing steel derrick, to Manitowoc Shipbuilding Corp., 16th St. and River, Manitowoc, $103,250. Noted Nov. 8.

Tex., Freeport—Repairing Jetty—U. S. Engineer, Galveston, repairing southwest jetty in Harbor, here, to C. Clarke & Co., 111 Security Bldg., Galveston, $24,413. Noted Oct. 4.

Wash., Puget Sound—Radio Masts—Spec. 4897—Bureau Yards & Docks, Navy Dept., Wash., D. C., three 200 ft. radio masts at Navy Yard, here, to Pole and Tube Wks., Inc., 907 Evans Bldg., Wash., D. C., $8.965 (120 days). Noted Oct. 25.

Calif., Los Angeles — Dredging — U. S. Engineer, 725 Central Bldg., dredging 700,000 cu.yd. in Harbor, here, to United Dredging Co., Central Bldg., $293,790. Noted Nov. 1.

Unclassified

PROPOSED WORK

Swimming Pool—Darien, Conn.—Cherry Lawn School having plans prepared swimming pool, steel and brick. To exceed $25,000. W. R. Steinmetz, Greely Bldg., Stamford, archt.

Conduit System—Erie, Pa.—Plans high tension conduit system in 12th St. $25,000. F. G. Lynch, city engr.

Dump Scows—Phila., Pa.—Plans to purchase six steel hull dump scows. $120,000. Engineer, c/o Dept. of Docks, Wharves & Ferries Dept., City Hall.

Terminal, etc. — Tampa, Fla. — U. S. Chemical Corp., Krause Bldg., plans phosphate terminal and new dock. $400,000. P. S. Gilchrist, Trust Bldg., Charlotte, N. C., engr.

Wharf Shed—Tampa, Fla.—See Industrial Works."

White Way—Chattanooga, Tenn.—Plans "White Way" system on Main St. $25,000. S. H. Boresky, chn., White Way Comn.

Grade Elimination—Cincinnati, O.—See "Bridges."

Coal Bunker—River Rouge, Mich.—Ford Motor Co., Highland Park (Detroit P. O.) had plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 2 story, 53 ft. high, 62 x 103 ft. rein.-con. and brick, plain foundation.

Swimming Pool, etc.—Dallas, Tex.—W. L. Thornton, 1200 Main St., plans 175 x 450 ft. concrete swimming pool, etc., in White Rock Park. $300,000.

Swimming Pool—Richmond, Calif.—See "Buildings."

Tunnel—San Francisco, Calif.—City and San Francisco Co. plan Sunset vehicular and pedestrian tunnel from Danvers and Merritt Sts. to block bounded by Alma, Belvedere, Rivoli and Cole Sts., approximately 46 ft. wide and asphalt paved. $1,400,000. M. M. O'Shaughnessy, city engr.

Culvert—San Luis Obispo, Calif.—making plans rein.-con box culvert on Monterey St. To exceed $30,000. W. B. Roselip, city engr.

Pipe Line and Surge Tank—Flesherton, Ont.—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans to install 36 in. steel pipe line 1,100 ft. long, head up to 550 ft. and 100 ft. steel surge tank. F. A. Gaby, ch. engr.

Telegraph Lines — Ontario — Western Union Telegraph Co., Shelby Ave., Detroit, Mich., plans to overhaul system and string 2,000 miles new wire from Windsor to Bridgeburg, incl. new crossarm insulators. $150,000. H. Yokum, c/o owner, engr.

Grand Stand—Oshawa, Ont.—Town having plans prepared for concrete and steel or wood and steel grand stand, $50,000. Hutton & Souter, Bank of Hamilton Bldg., Hamilton, archts.

Subway—Toronto, Ont.—Plans subway under Canadian Natl. Ry. tracks at Woodfield Rd., concrete abutments, plate girder spans. $39,000. R. C. Harris, city engr.

BIDS DESIRED

Special Work—New York, N. Y.—Nov. 30, by Transit Comn., 49 Lafayette St., supply of special work (Order 23) for use in construction of part of Lenox Ave. and 148th St. Yard. G. McAneny, chn.

Electric Light and Power Line—Erath, La.—Nov. 27, by Mayor and Bd. Aldermen, constructing municipal electric light and power line from Abbeville, distributing system, etc., in town limits, etc.

Transit Shed—Los Angeles, Calif.—Nov. 30, by G. W. Wade, secy., Harbor Comn., 97 x 600 ft., steel transit shed. $90,000.

BIDS RECEIVED

Port Improvements—New Orleans, La.—Bd. Port Comrs., New Court House Bldg., miscellaneous port improvements as follows: furnishing, erecting and painting structural steel, incl. operating machinery, approach span, machinery house, incl. 426,000 lb. steel and 50,000 lb. machinery from Virginia Bridge & Iron Co., Whitney Bank Bldg., $57,853; roofing Poland St. Shed from J. J. Clark, 946 Howard St., $4,660; removing St. Joseph St. Shed and re-erecting at Barracks St. landing, from B. N. Davis, 931 Magazine St., $5,561.

Wharf — New Orleans, La. — Bd. Port Comrs., New Court Bldg., concrete foundation for 400 ft. section Poland St. wharf extension, from Dalgarn Constr. Co., Louisiana Bldg., $55,600.

Retaining Wall — Chicago, Ill. — South Park Comrs., 57th St. and Cottage Grove Ave., retaining wall in connection with 23rd St. viaduct, from B. W. Constr. Co., 720 Cass St., $42,850.

Electrolier System—Los Angeles, Calif.—Electrolier system in Washington St., from Newberry Electric Corp., 724 South Olive St., $42,136.

CONTRACTS AWARDED

Transmission Line — Vermont — Twin State Gas & Electric Co., Bennington, will build 23,000 volt, 3 phase, transmission line from Bennington to Arlington, through East Arlington, 20 mi., transformer station in East Arlington, and 12 mi. distributing system. Work will be done by day labor. $125,000. Private plans.

Fire Alarm System — Coney Island (Brooklyn P. O.), N. Y.—T. J. Drennan, fire comr., Municipal Bldg., New York, portion of underground fire alarm system, here, to W. F. Kenney Co., 44 East 23rd St., New York, Item 1 $26,530; J. Sudgen Co., 17 West 42nd St., New York, Item 2 $16,731.

Heating and Ventilating Apparatus, etc.—Kew Gardens (Forest Hills, P. O.), N. Y.—Bd. Educ., 500 Park Ave., New York, heating, ventilating and temperature regulation apparatus in P. S. 99, here, to Federal Heating Co., 300 Madison Ave., New York, $46,950. Noted Nov. 15.

Heating and Ventilating Apparatus, etc.—New York, N. Y.—Bd. Educ., 500 Park Ave., heating, ventilating and temperature regulation apparatus in P. S. 6, Tremont Ave., to D. J. Rice, 42nd St. and Lexington Ave., $18,100; in P. S. 133, Jerome Ave., to Austin Eng. Co., 121 West 42nd St., $10,872. Noted Nov. 8.

Subway, etc.—New York, N. Y.—Transit Comn., 49 Lafayette St., tracks for part of Jerome Ave. Yard of 7th Ave.-Lexington Ave. Line, to Slattery Eng. & Constr. Co., 7 East 42nd St., $59,879; signal tower in 239th St. Yard of White Plains Rd. Rapid Transit R.R., Route 18, Sect. 2, Bronx Boro, Agreement "CU," to J. B. Roberts & Co., 1170 Bway., $12,758. Noted Nov. 1 and 15.

Heating and Ventilating Apparatus—St. Albans (Jamaica, P. O.), N. Y.—Bd. Educ., 500 Park Ave., New York, heating, temperature regulating and ventilating apparatus in P. S. 36, here, to Federal Heating Co., 300 Madison Ave., New York, $46,950. Noted Nov. 15.

White Way — Louisville, Ky. — Consolidated Realty Co., 5th St., installing White Way system along Douglass Blvd., in Cherokee Village (Subdivision of Louisville), to Louisville Gas & Electric Co., 311 West Chestnut St., $25,000.

Bank Protection—Waverly, Mo.—State Hy. Dept., Jefferson City, five 150 ft. and three 200 ft. current retards consisting of trees laid in river bed and anchored to concrete piling driven to rock and to bank, in connection with bridge over Missouri River, here, to Woods Bros. Constr. Co., Lincoln, Neb., $75,600.

Materials and Equipment

PROPOSED WORK

Tractors—Bristol, Conn.—Bd. Pub. Wks. plans to purchase 5-ton tractor for clearing snow; also 2½-ton tractor. G. Anderson, supt.

Floating Derrick—St. Catharines, Ont.—A. F. Fifield plans to purchase 5 ton 30 ft. boom floating derrick.

BIDS DESIRED

Pipe—Baton Rouge, La.—Dec. 13, by Comn. Council, furnishing 75,000 lin.ft. 8 in., 4,80 lin.ft. 10 in., 7,500 lin.ft. 12 in., and 2,200 lin.ft. 18 in. vitr. clay pipe, 253 manholes and 77 flush tanks. J. W. Billingsley, Interstate Bank Bldg., New Orleans, consult. engr.

Street Sweeper—Sanford, Fla.—Nov. 26, by city, street sweeper.

Steel—Chicago, Ill.—Junkunc Bros., 1140 West Garfield Blvd., in market for carload 18 gauge 1¾ x 7¾ steel cold rolled, also carload lots 1½ x ¾ bar steel.

Steel, etc.—Eau Claire, Wis.—Dells Paper & Pulp Co., c/o E. O'Brien, mgr., taking bids 13 steel tainter gates and 250 tons structural steel. L. A. De Guere, Wisconsin Rapids, engr.

Lumber—Atlantic, Ia.—Dec. 3 by Auditor Cass Co., furnishing 300,000 ft. bridge lumber and 17,000 ft. red cedar.

Reinforcing Bars, etc.—St. Paul, Minn.—Nov. 27, by H. W. Austin, city purch. agt., 72 tons steel reinforcing bars and 40 tons pig lead in 100-lb. pigs; 6 sluice gates, gate stands and 1 electric motor operating device for Water Dept.; also 1,650 lin.ft. vitr. clay sewer pipe for Dept. Pub. Wks. G. M. Shepard, city engr.

Steel Bars, etc.—Oroville, Calif.—Nov. 28, by R. A. Leonard, secy. Thermalito Irrigation Dist., furnishing 5,000 lb. reinforcing steel and bars, 2,200 bbl. cement, one 30 in. inlet and one 21 in. outlet needle valve, hand-operated, etc. S. J. Norris, Oroville, engr.

CONTRACTS AWARDED

Cement, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 5,000 bags Portland cement, to C. A. McCarthy, $3,475; 2,000 cu.yd. asphalt wearing surface sand, to Z. Mahoney, 557 46th St., Brooklyn, $2,460. Noted Nov. 8.

Valve Equipment—New York, N. Y.—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., electric valve operating equipment, Manhattan Boro, to Fox Reynolds Co., 81 East 125th St., $20,500. Noted Nov. 15.

Grapple Dredge — Phila., Pa. — G. F. Sproule, dir. Dept. Wharves & Ferries, grapple dredge to Ellicott Machine Co., 1111 Bush St., Baltimore, Md., $211,000. Noted Oct. 11 under "Miscellaneous."

Tractors, etc.—Shorewood (Milwaukee P. O.), **Wis.**—Five ton tractor and snow plow, to Monarch Tractor Co., Watertown, $4,375; one Fordson tractor and plow to Kilbourn Motor Co., 1555 Teutonia Ave., $911. Noted Nov. 1.

Structural Steel—Waukesha, Wis.—See "Industrial Works."

Paving Materials—St. Paul, Minn.—H. W. Austin, city purch. agt., materials for paving Plum St. between Mound Blvd. and Maria Ave., 380 bbl. cement to Corning Donohue Brick Co., 614 Ryan Bldg., $2.80 per bbl., 27 tons asphalt to Minnesota Road Equipment Co., 4536 Dupont Ave. S., Minneapolis, $22.66 per ton; 400 coils ¾ in. extra strong lead pipe to Natl. Lead Co., 451 East 6th St., $8.06 per 100 lb., 5,000 lb. solder to United Lead Co., 102 Fairfield Ave. W., $22.20 per cwt. Noted Nov. 1.